

This report contains analytical results of 2004 environmental sampling from the Lawrence Berkeley National Laboratory (Berkeley Lab) Environmental Services Group Air and Water Quality Protection programs. Data in this report have been reviewed for accuracy and are considered final, but in the event that any result reported here is subsequently revised or rejected during ongoing review of data sets throughout the year, an explanation will be included in an errata section at the end of this document.

### ***Sampling Programs***

Environmental Services Group Air and Water Quality Protection activities consist of the following sampling programs (click on the highlighted text to view a map of the sampling locations):

- **Stack Air Monitoring:** The collection and radiochemical analysis of air effluents emanating from exhaust stacks at Berkeley Lab facilities
- **Ambient Air Monitoring:** The collection and radiochemical analysis of environmental air samples (air that is external to buildings and away from stack effluents) at on-site and off-site locations
- **Rainwater Monitoring:** The collection and radiochemical analysis of precipitation
- **Surface Water Monitoring:** The collection and chemical/radiochemical analysis of [stormwater](#) and water from [creeks](#) located on-site and off-site
- **Wastewater Monitoring:** The collection and chemical/radiochemical analysis of wastewater from the two Berkeley Lab sewer outfalls and from two rinsewater treatment units
- **Sediment Monitoring:** The collection and chemical/radiochemical analysis of creek bed materials in the two largest creeks leaving the Berkeley Lab Site
- **Soil Monitoring:** The collection and chemical/radiochemical analysis of surface soil at locations where ambient air sampling is also performed
- **Vegetation Monitoring:** The collection and radiochemical analysis of trees and other vegetation from on- and off-site locations.

Maps showing the sample locations for these programs are provided below (Figures 1 – 6). No map is currently provided for the Vegetation Monitoring program since vegetation sampling locations vary from year to year; a map will be added to this report once sample results are finalized.

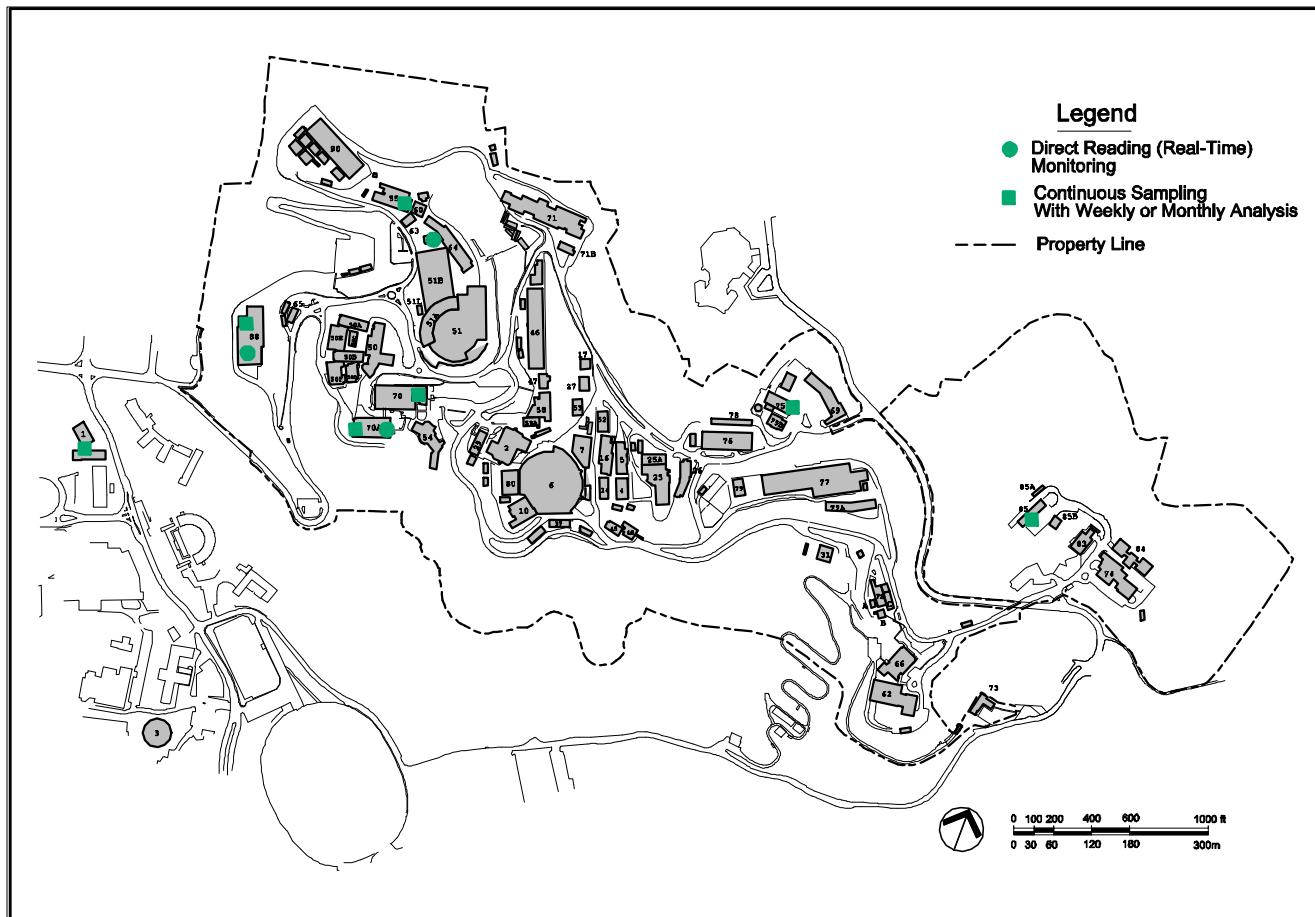


Figure 1. Stack Air Sampling Locations

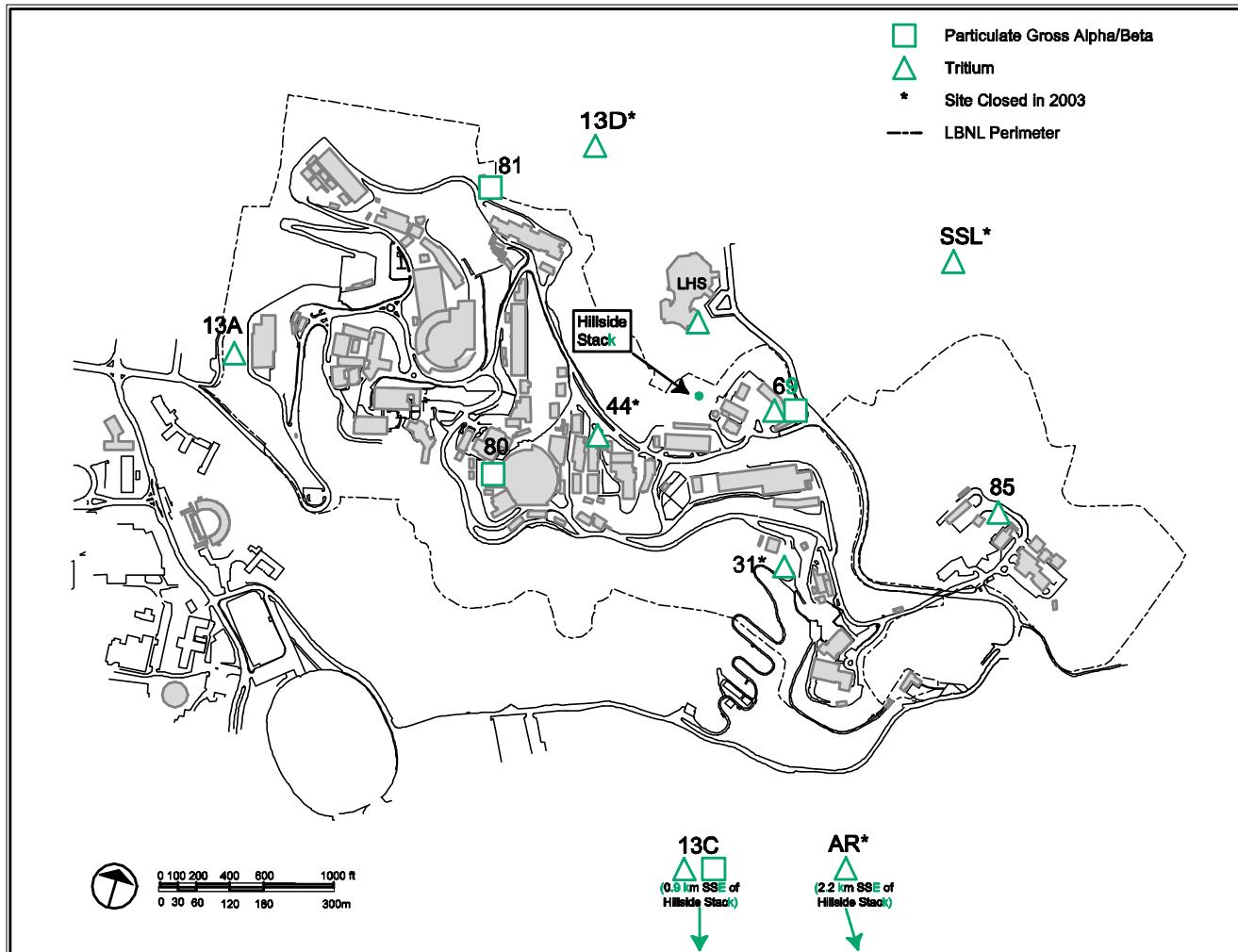


Figure 2. Ambient Air Sampling Locations

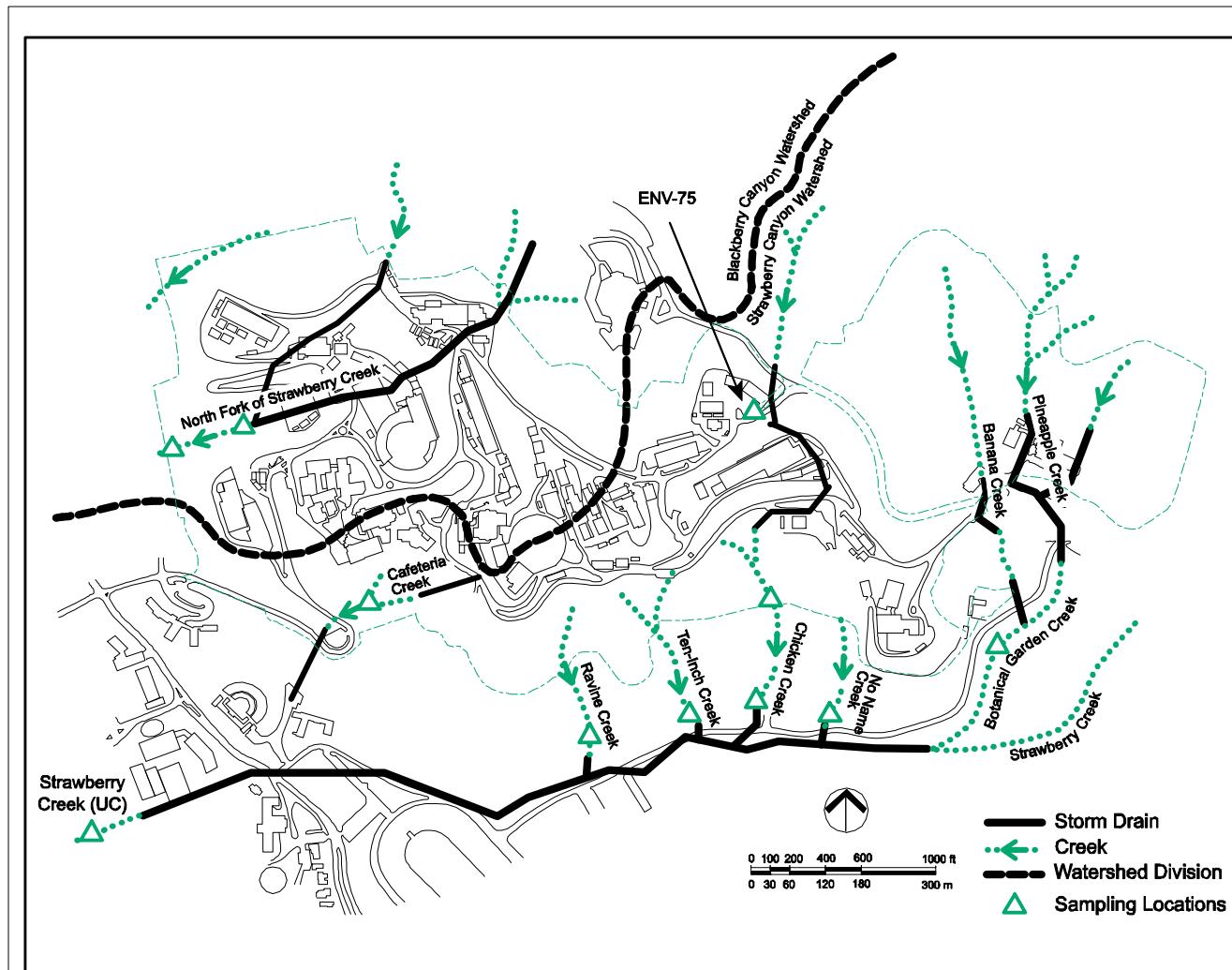


Figure 3. Creek and Rainwater Sampling Locations

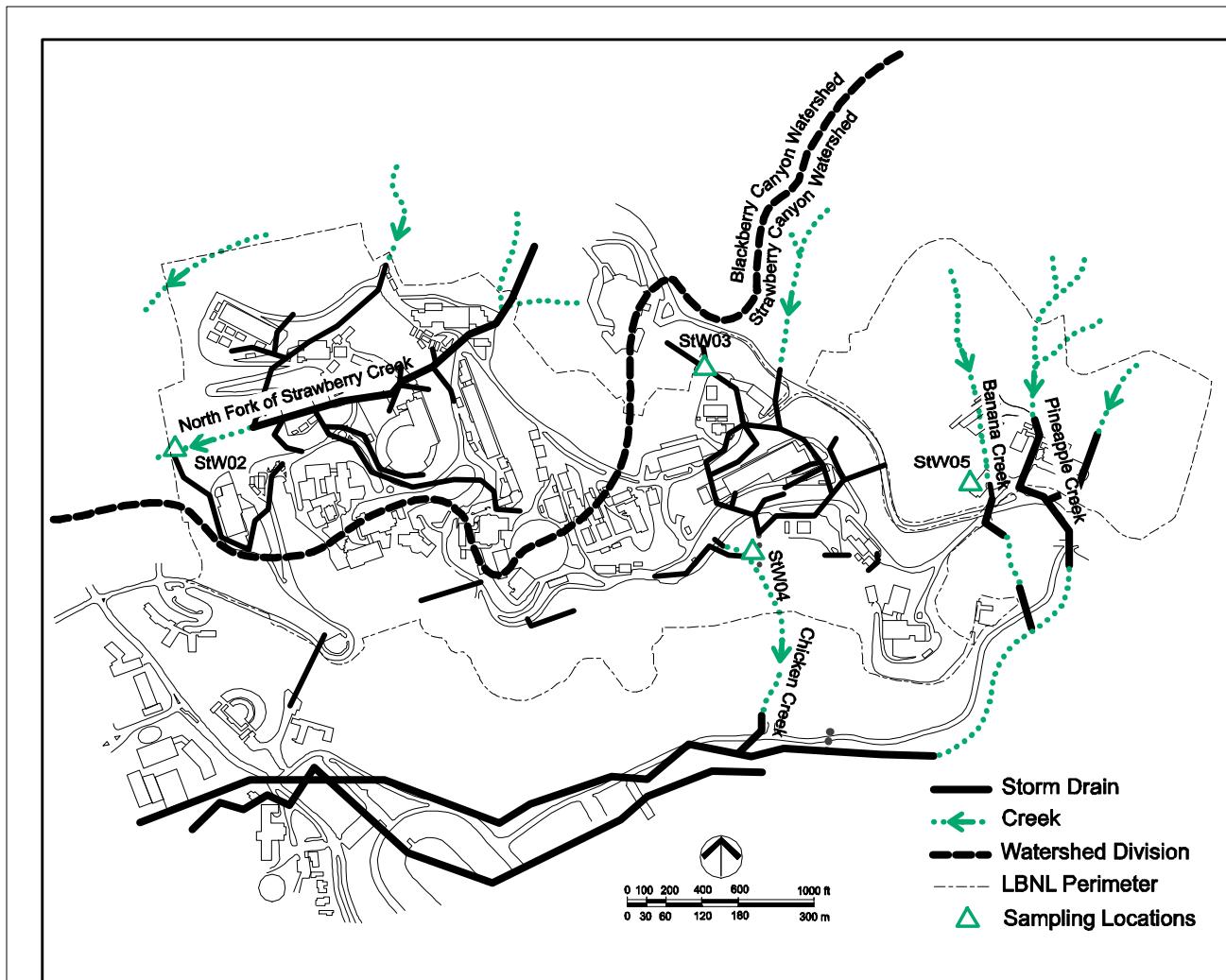


Figure 4. Stormwater Sampling Locations

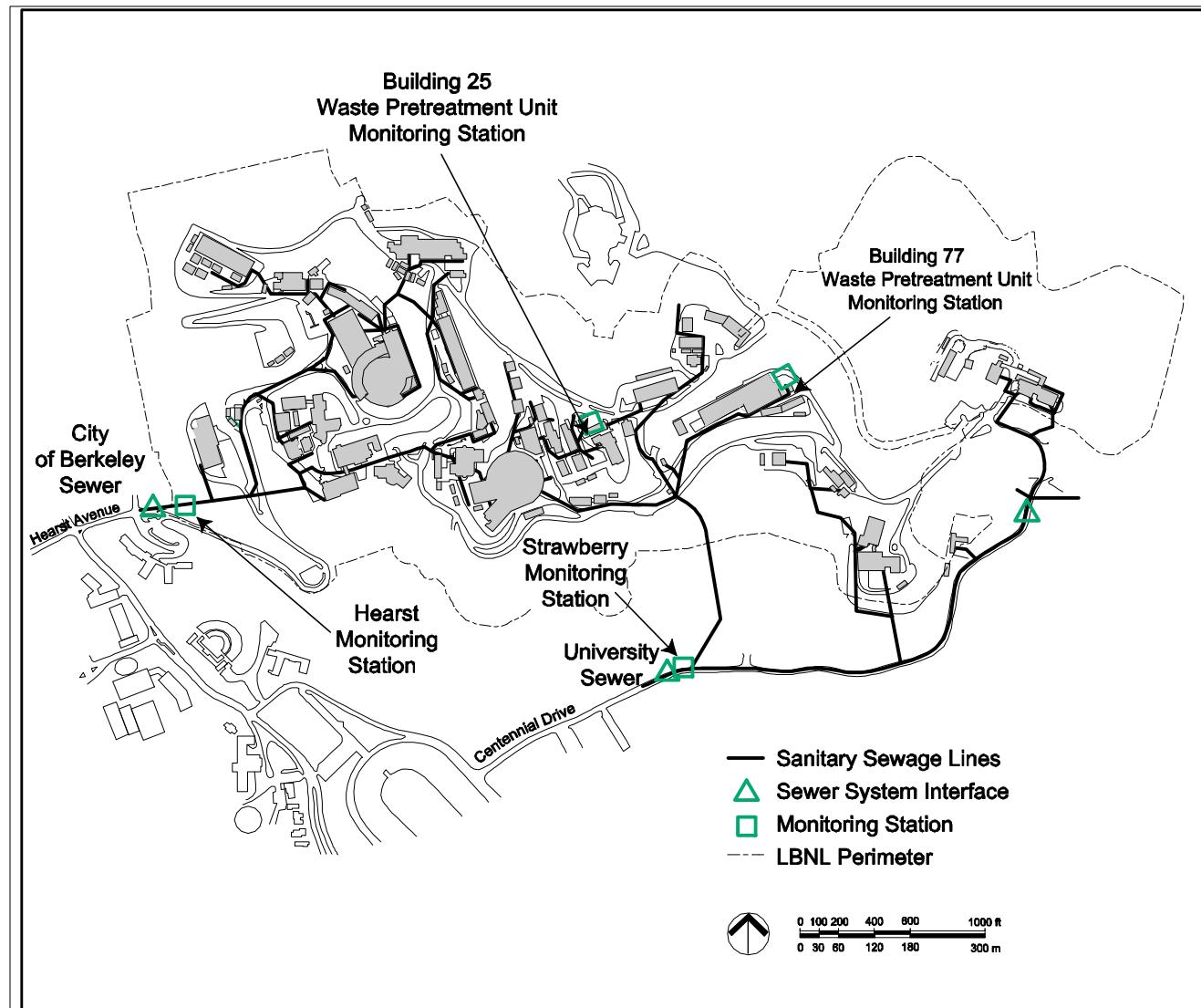


Figure 5. Wastewater Sampling Locations

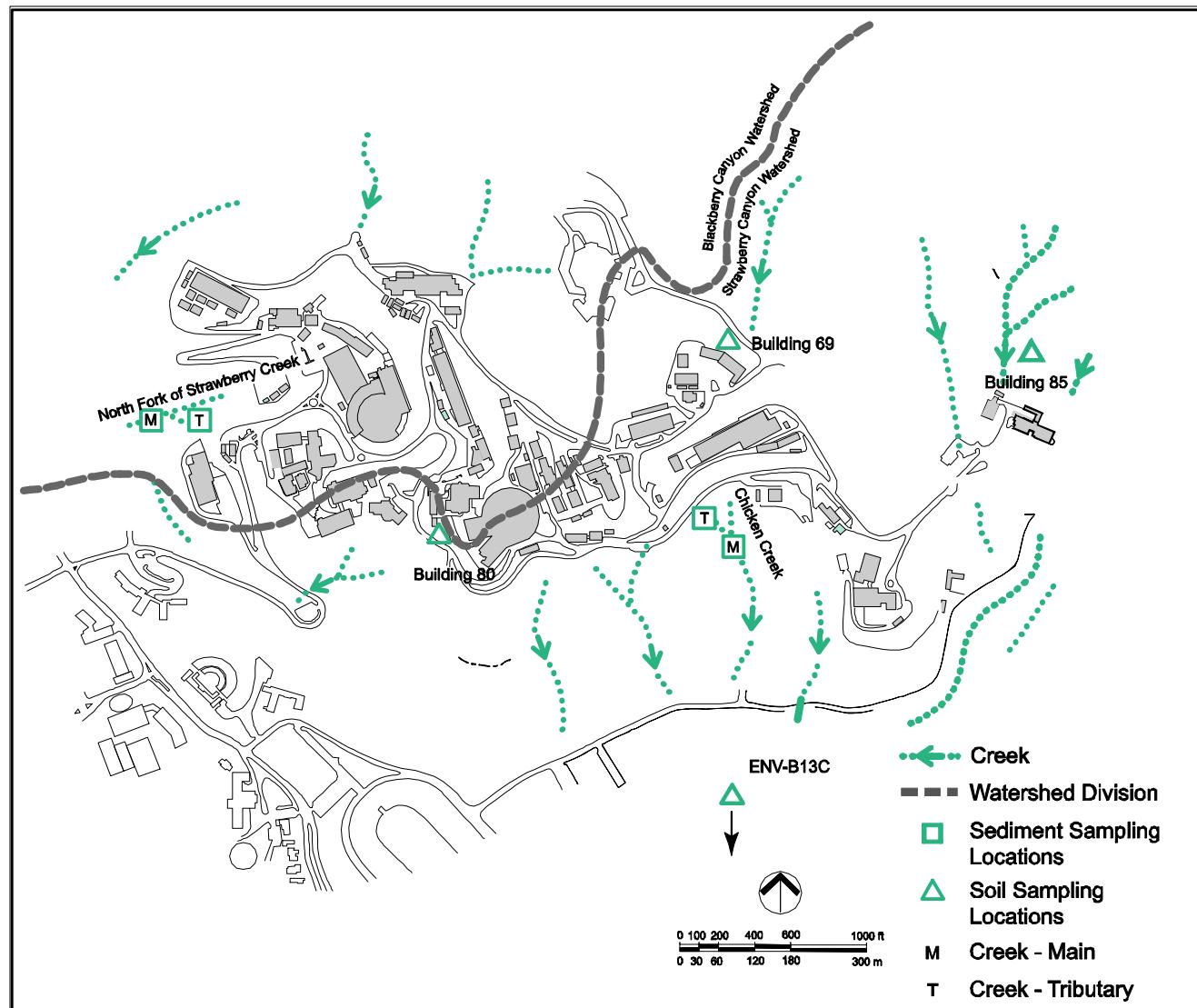


Figure 6. Soil and Sediment Sampling Locations

### ***Sampling Locations***

The results listed in this report reference sampling locations with a station identifier code. The following list cross-references these codes with a more meaningful and descriptive label. Further information can be found in the latest Berkeley Lab *Site Environmental Report*, which is posted on the Environmental Services Group website at <http://www.lbl.gov/ehs/esg/>.

<b>Location code</b>	<b>Description of sampling location</b>	<b>Sampling Program</b>
1-373H	Building 1, Room 373 hood	Stack Air
25 FTU	Building 25 fixed treatment unit	Wastewater
55-128	Building 55, Room 128	Stack Air
55-128 Backup	Building 55, Room 128 inline backup sample	Stack Air
69-Storm Drain	Building 69 storm drain inlet	Stormwater
70-103H	Building 70, Room 103 hood	Stack Air
70-147A	Building 70, Room 147A Berkeley box manifold	Stack Air
70-203H	Building 70, Room 203 hood	Stack Air
70-209H	Building 70, Room 209 hood	Stack Air
70A-1129B	Building 70A, Room 1129B	Stack Air
70A-1129H	Building 70A, Room 1129 hood	Stack Air
70A-1129P	Building 70A, Room 1129 pressurized box manifold	Stack Air
70A-1129RT	Building 70A, Room 1129 real-time monitor	Stack Air
70A-1145	Building 70A, Room 1145 Berkeley box manifold	Stack Air
70A-2211H	Building 70A, Room 2211 hood	Stack Air
70A-2217H	Building 70A, Room 2217 hood	Stack Air
75-107H	Building 75, Room 107 hood	Stack Air
75-112B	Building 75, Room 112B (calorimetry room)	Stack Air
75-127-H	Building 75, Room 127 hood	Stack Air
77 FTU	Building 77 fixed treatment unit	Wastewater
85 Glovebox	Building 85 (HWHF) penthouse glovebox	Stack Air
85 Hood	Building 85 (HWHF) penthouse hood	Stack Air
85 Hood Backup	Building 85 (HWHF) penthouse hood, inline backup sample	Stack Air
88 MezH	Building 88 east alley mezzanine fume hoods	Stack Air
B72-X-chip	Tree sampling near Building 72	Vegetation
B80-Soil-X	West side of Building 80	Soil
B88 Cave 0	Building 88, Cave 0	Stack Air
B88-135H	Building 88, Room 135 hood	Stack Air

***Sampling Locations***

<b>Location code</b>	<b>Description of sampling location</b>	<b>Sampling Program</b>
Botanical Garden Creek	Botanical Garden Creek	Surface Water
Building 69	North side of Building 69	Soil
Building 80	West side of Building 80	Soil
Building 85	Northeast of Building 85	Soil
Cafeteria Creek	Routine sampling at Cafeteria Creek	Surface Water
Chicken Creek	Routine sampling at Chicken Creek	Surface Water; Stormwater
Chicken Creek-Main	Chicken Creek	Sediment
Chicken Creek-Trib	Chicken Creek Tributary	Sediment
Claremont Creek	Claremont Creek	Surface Water
East Canyon	Between Hazardous Waste Handling Facility and Centennial Drive	Stormwater
ENV-69	Roof of Building 69	Ambient Air
ENV-75	Roof of Building 75	Rainwater
ENV-80	Roof of Building 80	Ambient Air
ENV-81	East of Building 81	Ambient Air
ENV-85	East of Building 85	Ambient Air
ENV-B13A	Sampling shelter west of Building 88	Ambient Air
ENV-B13C	Background sampling shelter off Panoramic Way	Ambient Air; Soil
ENV-B13D	Sampling shelter northwest of Lawrence Hall of Science	Ambient Air
ENV-LHS	Lawrence Hall of Science	Ambient Air
Field Blank	Blank sample prepared in the field	Surface Water; Rainwater; Wastewater
Hearst Sewer	Hearst sewer station	Wastewater
Lincoln Creek	Lincoln Creek at Lawrence Hall of Science	Surface Water
N. Fork Strawberry Creek	North Fork of Strawberry Creek outlet near western boundary of site	Surface Water; Stormwater
N. Fork Strawberry-Main	North Fork of Strawberry Creek outlet near western boundary of site	Sediment
N. Fork Strawberry-Trib	North Fork of Strawberry Creek outlet tributary	Sediment

***Sampling Locations***

<b>Location code</b>	<b>Description of sampling location</b>	<b>Sampling Program</b>
No Name Creek	Routine sampling at No Name Creek	Surface Water
NTLF-Hillside Stack	Former NTLF Hillside Stack	Stack Air
NTLF-Hillside Stack Drain	Former NTLF Hillside Stack drain line	Stack Air
Ravine Creek	Routine sampling at Ravine Creek	Surface Water
Schoolhouse Creek	Schoolhouse Creek at 1129 Curtis, Berkeley	Surface Water
Strawberry Creek (UC)	Upper Strawberry Creek	Surface Water
Strawberry Sewer	Strawberry Sewer station	Wastewater
Travel Blank	Blank sample prepared prior to field collections and carried by the sample technician during collection activities	Ambient Air, Stack Air, Wastewater
Wildcat Creek	Wildcat Creek	Surface Water

***Units***

The following units are used in the data table:

<b>Unit</b>	<b>Description</b>	<b>Pertains to:</b>
%	percent	moisture content of sample
µg/L	micrograms per liter	concentration of analyte (non-radioactive) in liquid
µmhos/cm	micromhos per centimeter	specific conductance in liquid
Bq/g	Becquerels per gram	activity of analyte (radioactive) in solid
Bq/L	Becquerels per liter	activity of analyte (radioactive) in liquid
Bq/m <sup>3</sup>	Becquerels per cubic meter	activity of analyte (radioactive) in air
Bq/S	Becquerels per sample	activity of analyte (radioactive) in blank samples
mg/L	milligrams per liter	concentration of analyte (non-radioactive) in liquid
pCi/g	picocuries per gram	activity of analyte (radioactive) in solid
pCi/L	picocuries per liter	activity of analyte (radioactive) in liquid
pCi/m <sup>3</sup>	picocuries per cubic meter	activity of analyte (radioactive) in air
pCi/S	picocuries per sample	activity of analyte (radioactive) in blank samples
S.U.	standard units	pH measurement

***Non-detect Results***

Results which are below the detection limit are reported in the data table as "< (reporting limit)." For non-detect non-radiological results, the reported value is the detection limit for the analyte specified in Berkeley Lab's analytical services contract. For non-detect radiological results, the reported value is generally the minimum detectable activity (MDA) for the analysis (in some cases the contracted detection limit is reported if the MDA is unavailable). Since the MDA can vary between analyses depending on physical factors (e.g., the radioactivity of the sample, the ambient radiation background, and the electronic noise of the instrument), the reporting limit may vary between samples from the same location.

# Stack Air Monitoring

## **Radiological Activity**

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Carbon 14	1-373H	1/6/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		2/3/2004	< 1.1	Bq/m3	< 29	pCi/m3	Sample
		3/2/2004	< 0.55	Bq/m3	< 15	pCi/m3	Sample
		4/6/2004	< 0.44	Bq/m3	< 12	pCi/m3	Sample
		5/4/2004	< 0.55	Bq/m3	< 15	pCi/m3	Sample
		6/1/2004	< 0.55	Bq/m3	< 15	pCi/m3	Sample
	70-147A	1/6/2004	< 0.54	Bq/m3	< 15	pCi/m3	Sample
		1/13/2004	< 2.2	Bq/m3	< 59	pCi/m3	Sample
		1/20/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		1/27/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		2/3/2004	< 1.1	Bq/m3	< 29	pCi/m3	Sample
		2/10/2004	< 1.1	Bq/m3	< 29	pCi/m3	Sample
		2/17/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		2/24/2004	< 1.2	Bq/m3	< 33	pCi/m3	Sample
		3/9/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		3/16/2004	< 1.2	Bq/m3	< 31	pCi/m3	Sample
85 Glovebox	70-147A	3/23/2004	< 1.1	Bq/m3	< 29	pCi/m3	Sample
		3/30/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		4/6/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		4/13/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		4/20/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		4/27/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		5/4/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		5/18/2004	< 2.2	Bq/m3	< 60	pCi/m3	Sample
		5/18/2004	< 2.2	Bq/m3	< 60	pCi/m3	Split
		5/25/2004	< 1.1	Bq/m3	< 29	pCi/m3	Sample
	85 Glovebox	1/6/2004	< 0.55	Bq/m3	< 15	pCi/m3	Sample
		1/13/2004	1.5	Bq/m3	40	pCi/m3	Sample
		1/13/2004	< 1.1	Bq/m3	< 30	pCi/m3	Split
		1/20/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		1/27/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		2/3/2004	< 1.1	Bq/m3	< 29	pCi/m3	Sample
		2/10/2004	< 1.1	Bq/m3	< 29	pCi/m3	Sample
		2/17/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		2/24/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		3/2/2004	< 2.2	Bq/m3	< 59	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "<" flag

## Berkeley Lab EH&amp;S Environmental Services Sampling Data

July 12, 2004

## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Carbon 14	85 Glovebox	3/2/2004	< 2.2	Bq/m3	< 59	pCi/m3	Split
continued		3/9/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		3/16/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		3/23/2004	< 1.1	Bq/m3	< 29	pCi/m3	Sample
		3/30/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		4/6/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		4/13/2004	< 1.1	Bq/m3	< 29	pCi/m3	Sample
		4/20/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		4/27/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		5/4/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		5/11/2004	< 1.1	Bq/m3	< 29	pCi/m3	Sample
		5/18/2004	< 2.2	Bq/m3	< 60	pCi/m3	Sample
		5/18/2004	< 2.2	Bq/m3	< 60	pCi/m3	Split
		5/25/2004	< 1.1	Bq/m3	< 30	pCi/m3	Sample
		6/1/2004	< 1.1	Bq/m3	< 29	pCi/m3	Sample
	85 Hood	1/6/2004	2.9	Bq/m3	78	pCi/m3	Sample
		1/13/2004	8.1	Bq/m3	220	pCi/m3	Sample
		1/20/2004	4	Bq/m3	110	pCi/m3	Sample
		1/27/2004	3.1	Bq/m3	82	pCi/m3	Sample
		2/3/2004	2.8	Bq/m3	76	pCi/m3	Sample
		2/10/2004	2.9	Bq/m3	79	pCi/m3	Sample
		2/17/2004	3.7	Bq/m3	99	pCi/m3	Sample
		2/24/2004	2.3	Bq/m3	63	pCi/m3	Sample
		3/2/2004	4.7	Bq/m3	130	pCi/m3	Sample
		3/2/2004	4.7	Bq/m3	130	pCi/m3	Split
		3/9/2004	3.1	Bq/m3	84	pCi/m3	Sample
		3/16/2004	3.7	Bq/m3	99	pCi/m3	Sample
		3/23/2004	2.8	Bq/m3	75	pCi/m3	Sample
		3/30/2004	5.3	Bq/m3	140	pCi/m3	Sample
		4/6/2004	5	Bq/m3	140	pCi/m3	Sample
		4/13/2004	6.1	Bq/m3	170	pCi/m3	Sample
		4/20/2004	5	Bq/m3	140	pCi/m3	Sample
		4/27/2004	5	Bq/m3	130	pCi/m3	Sample
		5/4/2004	5.1	Bq/m3	140	pCi/m3	Sample
		5/11/2004	4.4	Bq/m3	120	pCi/m3	Sample
		5/18/2004	3.4	Bq/m3	92	pCi/m3	Sample
		5/18/2004	5.1	Bq/m3	140	pCi/m3	Split
		6/1/2004	3.7	Bq/m3	99	pCi/m3	Sample
	85 Hood Backup	3/30/2004	2.2	Bq/m3	60	pCi/m3	Sample
		4/6/2004	3.1	Bq/m3	84	pCi/m3	Sample
		4/13/2004	2.5	Bq/m3	68	pCi/m3	Sample
		4/20/2004	2	Bq/m3	55	pCi/m3	Sample
		4/27/2004	3	Bq/m3	80	pCi/m3	Sample
		5/4/2004	2.4	Bq/m3	64	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

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## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Carbon 14	85 Hood Backup	5/18/2004	< 2.2	Bq/m3	< 60	pCi/m3	Sample
continued		5/18/2004	< 2.2	Bq/m3	< 60	pCi/m3	Split
	85 Hood Overflow	5/4/2004	2.2	Bq/m3	61	pCi/m3	Sample
	Travel Blank	1/6/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		1/6/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		1/13/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		1/20/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		1/27/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		2/3/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		2/3/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		2/10/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		2/17/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		2/24/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		3/2/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		3/2/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		3/9/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		3/16/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		3/23/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		3/30/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		4/6/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		4/6/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		4/13/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		4/20/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		4/27/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		5/4/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		5/4/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		5/11/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		5/18/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		5/25/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		6/1/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
		6/1/2004	< 1.1	Bq/S	< 30	pCi/S	Blank
Gross alpha	1-373H	1/6/2004	< 0.00022	Bq/m3	< 0.0058	pCi/m3	Sample
		2/3/2004	< 0.00022	Bq/m3	< 0.0058	pCi/m3	Sample
		3/2/2004	0.000094	Bq/m3	0.0025	pCi/m3	Sample
		4/6/2004	0.00012	Bq/m3	0.0033	pCi/m3	Sample
		5/4/2004	0.000095	Bq/m3	0.0026	pCi/m3	Sample
		6/1/2004	< 0.00022	Bq/m3	< 0.0058	pCi/m3	Sample
	55-128	1/6/2004	< 0.00023	Bq/m3	< 0.0063	pCi/m3	Sample
		2/3/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		4/6/2004	0.0001	Bq/m3	0.0027	pCi/m3	Sample
		5/4/2004	0.000095	Bq/m3	0.0026	pCi/m3	Sample
		6/1/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
	70-103H	1/6/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

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## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross alpha <i>continued</i>	70-103H	2/3/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		4/6/2004	< 0.000069	Bq/m3	< 0.0019	pCi/m3	Sample
		5/4/2004	< 0.000086	Bq/m3	< 0.0023	pCi/m3	Sample
		6/1/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		70-147A	1/6/2004	< 0.00011	Bq/m3	< 0.003	pCi/m3
		1/13/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		1/20/2004	0.000097	Bq/m3	0.0026	pCi/m3	Sample
		1/27/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		2/3/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		2/10/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		2/17/2004	< 0.00022	Bq/m3	< 0.0061	pCi/m3	Sample
		2/24/2004	< 0.000098	Bq/m3	< 0.0026	pCi/m3	Sample
		3/9/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		3/16/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		3/23/2004	< 0.000087	Bq/m3	< 0.0023	pCi/m3	Sample
		3/30/2004	0.00015	Bq/m3	0.0042	pCi/m3	Sample
		4/6/2004	0.000096	Bq/m3	0.0026	pCi/m3	Sample
		4/13/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		4/20/2004	< 0.00029	Bq/m3	< 0.0079	pCi/m3	Sample
		4/27/2004	< 0.000089	Bq/m3	< 0.0024	pCi/m3	Sample
		5/4/2004	0.000095	Bq/m3	0.0026	pCi/m3	Sample
		5/11/2004	0.00015	Bq/m3	0.0041	pCi/m3	Sample
		5/18/2004	0.000096	Bq/m3	0.0026	pCi/m3	Sample
		5/25/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		6/1/2004	< 0.000089	Bq/m3	< 0.0024	pCi/m3	Sample
70-203H		1/6/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		2/3/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		4/6/2004	0.000077	Bq/m3	0.0021	pCi/m3	Sample
		5/4/2004	< 0.000088	Bq/m3	< 0.0024	pCi/m3	Sample
		6/1/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
70-209H		1/6/2004	0.00025	Bq/m3	0.0067	pCi/m3	Sample
		2/3/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		4/6/2004	< 0.00007	Bq/m3	< 0.0019	pCi/m3	Sample
		5/4/2004	0.00019	Bq/m3	0.0052	pCi/m3	Sample
		6/1/2004	0.0002	Bq/m3	0.0055	pCi/m3	Sample
70A-1129B		1/6/2004	< 0.00022	Bq/m3	< 0.0058	pCi/m3	Sample
		2/3/2004	< 0.00022	Bq/m3	< 0.0058	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		4/6/2004	0.000099	Bq/m3	0.0027	pCi/m3	Sample
		5/4/2004	0.000095	Bq/m3	0.0026	pCi/m3	Sample
		6/1/2004	< 0.00022	Bq/m3	< 0.0058	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "&lt;" flag

## Berkeley Lab EH&amp;S Environmental Services Sampling Data

July 12, 2004

## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross alpha	70A-1129H	1/6/2004	< 0.00013	Bq/m3	< 0.0035	pCi/m3	Sample
<i>continued</i>		1/13/2004	< 0.00027	Bq/m3	< 0.0072	pCi/m3	Sample
		1/20/2004	< 0.00011	Bq/m3	< 0.0029	pCi/m3	Sample
		1/27/2004	< 0.00027	Bq/m3	< 0.0072	pCi/m3	Sample
		2/3/2004	< 0.00026	Bq/m3	< 0.007	pCi/m3	Sample
		2/10/2004	< 0.00026	Bq/m3	< 0.0071	pCi/m3	Sample
		2/17/2004	< 0.00027	Bq/m3	< 0.0072	pCi/m3	Sample
		2/24/2004	< 0.00011	Bq/m3	< 0.0029	pCi/m3	Sample
		3/2/2004	< 0.00027	Bq/m3	< 0.0072	pCi/m3	Sample
		3/9/2004	< 0.00028	Bq/m3	< 0.0075	pCi/m3	Sample
		3/16/2004	< 0.00028	Bq/m3	< 0.0074	pCi/m3	Sample
		3/23/2004	0.00011	Bq/m3	0.003	pCi/m3	Sample
		3/30/2004	< 0.00011	Bq/m3	< 0.0028	pCi/m3	Sample
		4/6/2004	0.00012	Bq/m3	0.0032	pCi/m3	Sample
		4/13/2004	< 0.00027	Bq/m3	< 0.0074	pCi/m3	Sample
		4/20/2004	< 0.00036	Bq/m3	< 0.0096	pCi/m3	Sample
		4/27/2004	0.00012	Bq/m3	0.0031	pCi/m3	Sample
		5/4/2004	< 0.00011	Bq/m3	< 0.0029	pCi/m3	Sample
		5/11/2004	0.00016	Bq/m3	0.0042	pCi/m3	Sample
		5/18/2004	0.00012	Bq/m3	0.0032	pCi/m3	Sample
		5/25/2004	< 0.00027	Bq/m3	< 0.0072	pCi/m3	Sample
		6/1/2004	0.00012	Bq/m3	0.0032	pCi/m3	Sample
	70A-1129P	1/6/2004	< 0.00014	Bq/m3	< 0.0038	pCi/m3	Sample
		1/13/2004	< 0.00033	Bq/m3	< 0.009	pCi/m3	Sample
		1/20/2004	0.00015	Bq/m3	0.0041	pCi/m3	Sample
		1/27/2004	< 0.00023	Bq/m3	< 0.0061	pCi/m3	Sample
		2/3/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		2/10/2004	< 0.00025	Bq/m3	< 0.0069	pCi/m3	Sample
		2/17/2004	< 0.00023	Bq/m3	< 0.0061	pCi/m3	Sample
		2/24/2004	< 0.000089	Bq/m3	< 0.0024	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		3/9/2004	< 0.00023	Bq/m3	< 0.0061	pCi/m3	Sample
		3/16/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		3/23/2004	< 0.000088	Bq/m3	< 0.0024	pCi/m3	Sample
		3/30/2004	< 0.00009	Bq/m3	< 0.0024	pCi/m3	Sample
		4/13/2004	< 0.00023	Bq/m3	< 0.0061	pCi/m3	Sample
		4/20/2004	< 0.0003	Bq/m3	< 0.008	pCi/m3	Sample
		4/27/2004	0.000097	Bq/m3	0.0026	pCi/m3	Sample
		5/4/2004	< 0.00009	Bq/m3	< 0.0024	pCi/m3	Sample
		5/11/2004	0.00013	Bq/m3	0.0034	pCi/m3	Sample
		5/18/2004	0.000098	Bq/m3	0.0026	pCi/m3	Sample
		5/25/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		6/1/2004	0.000097	Bq/m3	0.0026	pCi/m3	Sample
	70A-1145	1/6/2004	< 0.00024	Bq/m3	< 0.0064	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

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## Berkeley Lab EH&amp;S Environmental Services Sampling Data

July 12, 2004

## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross alpha <i>continued</i>	70A-1145	2/3/2004	< 0.00023	Bq/m3	< 0.0063	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		4/6/2004	0.00013	Bq/m3	0.0034	pCi/m3	Sample
		5/4/2004	< 0.0001	Bq/m3	< 0.0028	pCi/m3	Sample
		6/1/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		70A-2211H	1/6/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3
		2/3/2004	0.0002	Bq/m3	0.0055	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		4/6/2004	0.00015	Bq/m3	0.0041	pCi/m3	Sample
		5/4/2004	0.00012	Bq/m3	0.0033	pCi/m3	Sample
		6/1/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
	70A-2217H	1/6/2004	0.00025	Bq/m3	0.0066	pCi/m3	Sample
		2/3/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		4/6/2004	< 0.00007	Bq/m3	< 0.0019	pCi/m3	Sample
		5/4/2004	0.00019	Bq/m3	0.0051	pCi/m3	Sample
		6/1/2004	< 0.00022	Bq/m3	< 0.0058	pCi/m3	Sample
	75-127-H	2/3/2004	< 0.00025	Bq/m3	< 0.0067	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		4/6/2004	0.0001	Bq/m3	0.0028	pCi/m3	Sample
		5/4/2004	0.00011	Bq/m3	0.0029	pCi/m3	Sample
		6/1/2004	< 0.00023	Bq/m3	< 0.0062	pCi/m3	Sample
		85 Glovebox	1/6/2004	< 0.00011	Bq/m3	< 0.003	pCi/m3
		1/13/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		1/20/2004	< 0.000087	Bq/m3	< 0.0024	pCi/m3	Sample
		1/27/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		2/3/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		2/10/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		2/17/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		2/24/2004	0.000095	Bq/m3	0.0026	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		3/9/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		3/16/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		3/23/2004	< 0.000086	Bq/m3	< 0.0023	pCi/m3	Sample
		3/30/2004	0.00013	Bq/m3	0.0034	pCi/m3	Sample
		4/6/2004	< 0.000089	Bq/m3	< 0.0024	pCi/m3	Sample
		4/13/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		4/20/2004	< 0.00029	Bq/m3	< 0.0078	pCi/m3	Sample
		4/27/2004	0.000096	Bq/m3	0.0026	pCi/m3	Sample
		5/4/2004	< 0.000088	Bq/m3	< 0.0024	pCi/m3	Sample
		5/11/2004	< 0.000086	Bq/m3	< 0.0023	pCi/m3	Sample
		5/18/2004	0.00019	Bq/m3	0.0052	pCi/m3	Sample
		5/25/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		6/1/2004	< 0.000087	Bq/m3	< 0.0024	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

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## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross alpha	85 Hood	1/6/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
continued		1/13/2004	< 0.00041	Bq/m3	< 0.011	pCi/m3	Sample
		1/20/2004	< 0.00016	Bq/m3	< 0.0044	pCi/m3	Sample
		1/27/2004	< 0.00039	Bq/m3	< 0.011	pCi/m3	Sample
		2/10/2004	< 0.00028	Bq/m3	< 0.0077	pCi/m3	Sample
		2/17/2004	< 0.00033	Bq/m3	< 0.0089	pCi/m3	Sample
		2/24/2004	< 0.00013	Bq/m3	< 0.0035	pCi/m3	Sample
		3/2/2004	< 0.00033	Bq/m3	< 0.0089	pCi/m3	Sample
		3/9/2004	< 0.00036	Bq/m3	< 0.0097	pCi/m3	Sample
		3/16/2004	< 0.00036	Bq/m3	< 0.0097	pCi/m3	Sample
		3/23/2004	< 0.00011	Bq/m3	< 0.003	pCi/m3	Sample
		3/30/2004	0.00016	Bq/m3	0.0044	pCi/m3	Sample
		4/6/2004	< 0.00014	Bq/m3	< 0.0038	pCi/m3	Sample
		4/13/2004	< 0.00032	Bq/m3	< 0.0087	pCi/m3	Sample
		4/20/2004	< 0.00039	Bq/m3	< 0.011	pCi/m3	Sample
		4/27/2004	< 0.00011	Bq/m3	< 0.0031	pCi/m3	Sample
		5/4/2004	< 0.00012	Bq/m3	< 0.0032	pCi/m3	Sample
		5/11/2004	0.00014	Bq/m3	0.0037	pCi/m3	Sample
		5/18/2004	0.00013	Bq/m3	0.0034	pCi/m3	Sample
		5/25/2004	< 0.00029	Bq/m3	< 0.0078	pCi/m3	Sample
		6/1/2004	< 0.00016	Bq/m3	< 0.0044	pCi/m3	Sample
88-MezH		1/6/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		2/3/2004	< 0.00022	Bq/m3	< 0.0058	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		4/6/2004	< 0.00007	Bq/m3	< 0.0019	pCi/m3	Sample
		5/4/2004	< 0.000087	Bq/m3	< 0.0024	pCi/m3	Sample
		6/1/2004	< 0.00022	Bq/m3	< 0.0058	pCi/m3	Sample
B88 Cave 0		1/6/2004	< 0.00011	Bq/m3	< 0.003	pCi/m3	Sample
		1/13/2004	0.00024	Bq/m3	0.0064	pCi/m3	Sample
		1/20/2004	< 0.000089	Bq/m3	< 0.0024	pCi/m3	Sample
		1/27/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		2/3/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		2/10/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		2/17/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		2/24/2004	0.000096	Bq/m3	0.0026	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		3/9/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		3/16/2004	0.0002	Bq/m3	0.0055	pCi/m3	Sample
		3/23/2004	0.00012	Bq/m3	0.0034	pCi/m3	Sample
		3/30/2004	0.00013	Bq/m3	0.0034	pCi/m3	Sample
		4/6/2004	0.000096	Bq/m3	0.0026	pCi/m3	Sample
		4/13/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		4/20/2004	< 0.00029	Bq/m3	< 0.0079	pCi/m3	Sample
		4/27/2004	< 0.000088	Bq/m3	< 0.0024	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

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## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross alpha	B88 Cave 0	5/4/2004	0.000096	Bq/m3	0.0026	pCi/m3	Sample
continued		5/11/2004	0.000095	Bq/m3	0.0026	pCi/m3	Sample
		5/18/2004	< 0.00009	Bq/m3	< 0.0024	pCi/m3	Sample
		5/25/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		6/1/2004	0.000095	Bq/m3	0.0026	pCi/m3	Sample
	B88-135H	1/6/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		2/3/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		3/2/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		4/6/2004	0.000076	Bq/m3	0.0021	pCi/m3	Sample
		5/4/2004	0.000095	Bq/m3	0.0026	pCi/m3	Sample
		6/1/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
	Travel Blank	1/6/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		1/6/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		1/13/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		1/20/2004	< 0.044	Bq/S	< 1.2	pCi/S	Blank
		1/27/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		2/3/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		2/3/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		2/10/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		2/17/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		2/24/2004	< 0.044	Bq/S	< 1.2	pCi/S	Blank
		3/2/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		3/2/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		3/9/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		3/16/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		3/23/2004	< 0.044	Bq/S	< 1.2	pCi/S	Blank
		3/30/2004	< 0.044	Bq/S	< 1.2	pCi/S	Blank
		4/6/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		4/6/2004	< 0.044	Bq/S	< 1.2	pCi/S	Blank
		4/13/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		4/20/2004	< 0.15	Bq/S	< 4	pCi/S	Blank
		4/27/2004	0.048	Bq/S	1.3	pCi/S	Blank
		5/4/2004	0.048	Bq/S	1.3	pCi/S	Blank
		5/4/2004	< 0.044	Bq/S	< 1.2	pCi/S	Blank
		5/11/2004	0.063	Bq/S	1.7	pCi/S	Blank
		5/18/2004	< 0.044	Bq/S	< 1.2	pCi/S	Blank
		5/25/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		6/1/2004	0.048	Bq/S	1.3	pCi/S	Blank
		6/1/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
Gross beta	1-373H	1/6/2004	0.00048	Bq/m3	0.013	pCi/m3	Sample
		2/3/2004	0.00079	Bq/m3	0.021	pCi/m3	Sample
		3/2/2004	0.00053	Bq/m3	0.014	pCi/m3	Sample
		4/6/2004	0.00047	Bq/m3	0.013	pCi/m3	Sample
		5/4/2004	0.00053	Bq/m3	0.014	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "&lt;" flag

## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross beta <i>continued</i>	1-373H 55-128	6/1/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		1/6/2004	0.00056	Bq/m3	0.015	pCi/m3	Sample
		2/3/2004	0.00088	Bq/m3	0.024	pCi/m3	Sample
		3/2/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		4/6/2004	< 0.00035	Bq/m3	< 0.0095	pCi/m3	Sample
		5/4/2004	0.00049	Bq/m3	0.013	pCi/m3	Sample
		6/1/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		1/6/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		2/3/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		3/2/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
70-103H		4/6/2004	< 0.00034	Bq/m3	< 0.0093	pCi/m3	Sample
		5/4/2004	0.0005	Bq/m3	0.014	pCi/m3	Sample
		6/1/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		1/6/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		2/3/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		3/2/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		4/6/2004	< 0.00034	Bq/m3	< 0.0093	pCi/m3	Sample
		5/4/2004	0.0005	Bq/m3	0.014	pCi/m3	Sample
		6/1/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		1/6/2004	0.00032	Bq/m3	0.0086	pCi/m3	Sample
70-147A		1/13/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		1/20/2004	0.00073	Bq/m3	0.02	pCi/m3	Sample
		1/27/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		2/3/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		2/10/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		2/17/2004	0.00051	Bq/m3	0.014	pCi/m3	Sample
		2/24/2004	0.00046	Bq/m3	0.012	pCi/m3	Sample
		3/9/2004	0.00042	Bq/m3	0.011	pCi/m3	Sample
		3/16/2004	0.00052	Bq/m3	0.014	pCi/m3	Sample
		3/23/2004	< 0.00036	Bq/m3	< 0.0098	pCi/m3	Sample
		3/30/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		4/6/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		4/13/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		4/20/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		4/27/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		5/4/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		5/11/2004	0.00052	Bq/m3	0.014	pCi/m3	Sample
		5/18/2004	0.0005	Bq/m3	0.014	pCi/m3	Sample
		5/25/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		6/1/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
70-203H		1/6/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		2/3/2004	0.00066	Bq/m3	0.018	pCi/m3	Sample
		3/2/2004	0.00057	Bq/m3	0.015	pCi/m3	Sample
		4/6/2004	0.00059	Bq/m3	0.016	pCi/m3	Sample
		5/4/2004	0.00043	Bq/m3	0.012	pCi/m3	Sample
70-209H		6/1/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		1/6/2004	0.00049	Bq/m3	0.013	pCi/m3	Sample
		2/3/2004	0.00063	Bq/m3	0.017	pCi/m3	Sample
		3/2/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		4/6/2004	0.00044	Bq/m3	0.012	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

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\*\* See the discussion at the beginning of this document for an explanation of the "&lt;" flag

## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross beta	70-209H	5/4/2004	0.00057	Bq/m3	0.015	pCi/m3	Sample
<i>continued</i>		6/1/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
	70A-1129B	1/6/2004	0.00047	Bq/m3	0.013	pCi/m3	Sample
		2/3/2004	0.00048	Bq/m3	0.013	pCi/m3	Sample
		3/2/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		4/6/2004	0.00058	Bq/m3	0.016	pCi/m3	Sample
		5/4/2004	0.00043	Bq/m3	0.012	pCi/m3	Sample
		6/1/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
	70A-1129H	1/6/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		1/13/2004	< 0.00054	Bq/m3	< 0.014	pCi/m3	Sample
		1/20/2004	< 0.00054	Bq/m3	< 0.015	pCi/m3	Sample
		1/27/2004	0.00081	Bq/m3	0.022	pCi/m3	Sample
		2/3/2004	< 0.00052	Bq/m3	< 0.014	pCi/m3	Sample
		2/10/2004	< 0.00052	Bq/m3	< 0.014	pCi/m3	Sample
		2/17/2004	0.0007	Bq/m3	0.019	pCi/m3	Sample
		2/24/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		3/2/2004	< 0.00053	Bq/m3	< 0.014	pCi/m3	Sample
		3/9/2004	< 0.00046	Bq/m3	< 0.013	pCi/m3	Sample
		3/16/2004	< 0.00055	Bq/m3	< 0.015	pCi/m3	Sample
		3/23/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		3/30/2004	< 0.00053	Bq/m3	< 0.014	pCi/m3	Sample
		4/6/2004	< 0.00054	Bq/m3	< 0.015	pCi/m3	Sample
		4/13/2004	< 0.00055	Bq/m3	< 0.015	pCi/m3	Sample
		4/20/2004	< 0.00054	Bq/m3	< 0.014	pCi/m3	Sample
		4/27/2004	< 0.00054	Bq/m3	< 0.014	pCi/m3	Sample
		5/4/2004	< 0.00054	Bq/m3	< 0.015	pCi/m3	Sample
		5/11/2004	< 0.00046	Bq/m3	< 0.012	pCi/m3	Sample
		5/18/2004	< 0.00054	Bq/m3	< 0.015	pCi/m3	Sample
		5/25/2004	< 0.00053	Bq/m3	< 0.014	pCi/m3	Sample
		6/1/2004	< 0.00054	Bq/m3	< 0.015	pCi/m3	Sample
	70A-1129P	1/6/2004	< 0.00024	Bq/m3	< 0.0064	pCi/m3	Sample
		1/13/2004	< 0.00067	Bq/m3	< 0.018	pCi/m3	Sample
		1/20/2004	< 0.0007	Bq/m3	< 0.019	pCi/m3	Sample
		1/27/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		2/3/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		2/10/2004	< 0.00051	Bq/m3	< 0.014	pCi/m3	Sample
		2/17/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		2/24/2004	< 0.00037	Bq/m3	< 0.01	pCi/m3	Sample
		3/2/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		3/9/2004	< 0.00038	Bq/m3	< 0.01	pCi/m3	Sample
		3/16/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		3/23/2004	< 0.00037	Bq/m3	< 0.0099	pCi/m3	Sample
		3/30/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		4/13/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

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\*\* See the discussion at the beginning of this document for an explanation of the "&lt;" flag

## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross beta <i>continued</i>	70A-1129P	4/20/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		4/27/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		5/4/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		5/11/2004	< 0.00037	Bq/m3	< 0.01	pCi/m3	Sample
		5/18/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		5/25/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		6/1/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		1/6/2004	< 0.00047	Bq/m3	< 0.013	pCi/m3	Sample
		2/3/2004	< 0.00046	Bq/m3	< 0.013	pCi/m3	Sample
		3/2/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
70A-1145	70A-1145	4/6/2004	< 0.00036	Bq/m3	< 0.0097	pCi/m3	Sample
		5/4/2004	< 0.00052	Bq/m3	< 0.014	pCi/m3	Sample
		6/1/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		1/6/2004	0.00048	Bq/m3	0.013	pCi/m3	Sample
		2/3/2004	0.0008	Bq/m3	0.022	pCi/m3	Sample
		3/2/2004	0.00073	Bq/m3	0.02	pCi/m3	Sample
		4/6/2004	0.00039	Bq/m3	0.011	pCi/m3	Sample
		5/4/2004	0.00047	Bq/m3	0.013	pCi/m3	Sample
		6/1/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		1/6/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
70A-2211H	70A-2211H	2/3/2004	0.00068	Bq/m3	0.018	pCi/m3	Sample
		3/2/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		4/6/2004	< 0.00035	Bq/m3	< 0.0094	pCi/m3	Sample
		5/4/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		6/1/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		1/6/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		2/3/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		3/2/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		4/6/2004	< 0.00035	Bq/m3	< 0.0094	pCi/m3	Sample
		5/4/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
75-127-H	75-127-H	6/1/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		1/6/2004	< 0.00049	Bq/m3	< 0.013	pCi/m3	Sample
		2/3/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		3/2/2004	< 0.00037	Bq/m3	< 0.0099	pCi/m3	Sample
		4/6/2004	< 0.0005	Bq/m3	< 0.014	pCi/m3	Sample
		5/4/2004	< 0.00046	Bq/m3	< 0.012	pCi/m3	Sample
		6/1/2004	< 0.00046	Bq/m3	< 0.012	pCi/m3	Sample
		1/6/2004	< 0.00018	Bq/m3	< 0.0049	pCi/m3	Sample
		1/13/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		1/20/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
85 Glovebox	85 Glovebox	1/27/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		2/3/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		2/10/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		2/17/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		2/24/2004	< 0.00037	Bq/m3	< 0.0099	pCi/m3	Sample
		3/2/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		3/9/2004	< 0.00037	Bq/m3	< 0.0099	pCi/m3	Sample
		3/16/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		3/23/2004	< 0.00036	Bq/m3	< 0.0097	pCi/m3	Sample
		3/30/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		4/6/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "&lt;" flag

## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*	
			Result**	Units	Result**	Analyte		
Gross beta <i>continued</i>	85 Glovebox	4/13/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample	
		4/20/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample	
		4/27/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample	
		5/4/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample	
		5/11/2004	< 0.00036	Bq/m3	< 0.0097	pCi/m3	Sample	
		5/18/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample	
		5/25/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample	
		6/1/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample	
		85 Hood	1/6/2004	< 0.00037	Bq/m3	< 0.01	pCi/m3	Sample
		1/13/2004	< 0.00083	Bq/m3	< 0.022	pCi/m3	Sample	
88-MezH	85 Hood	1/20/2004	< 0.00082	Bq/m3	< 0.022	pCi/m3	Sample	
		1/27/2004	< 0.00079	Bq/m3	< 0.021	pCi/m3	Sample	
		2/10/2004	< 0.00057	Bq/m3	< 0.015	pCi/m3	Sample	
		2/17/2004	< 0.00066	Bq/m3	< 0.018	pCi/m3	Sample	
		2/24/2004	< 0.00053	Bq/m3	< 0.014	pCi/m3	Sample	
		3/2/2004	< 0.00066	Bq/m3	< 0.018	pCi/m3	Sample	
		3/9/2004	< 0.0006	Bq/m3	< 0.016	pCi/m3	Sample	
		3/16/2004	< 0.00072	Bq/m3	< 0.019	pCi/m3	Sample	
		3/23/2004	< 0.00046	Bq/m3	< 0.012	pCi/m3	Sample	
		3/30/2004	< 0.00057	Bq/m3	< 0.016	pCi/m3	Sample	
B88 Cave 0	B88 Cave 0	4/6/2004	< 0.0007	Bq/m3	< 0.019	pCi/m3	Sample	
		4/13/2004	< 0.00064	Bq/m3	< 0.017	pCi/m3	Sample	
		4/20/2004	< 0.00058	Bq/m3	< 0.016	pCi/m3	Sample	
		4/27/2004	< 0.00057	Bq/m3	< 0.015	pCi/m3	Sample	
		5/4/2004	< 0.0006	Bq/m3	< 0.016	pCi/m3	Sample	
		5/11/2004	< 0.00052	Bq/m3	< 0.014	pCi/m3	Sample	
		5/18/2004	< 0.00058	Bq/m3	< 0.016	pCi/m3	Sample	
		5/25/2004	< 0.00058	Bq/m3	< 0.016	pCi/m3	Sample	
		6/1/2004	< 0.00082	Bq/m3	< 0.022	pCi/m3	Sample	
		1/6/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample	
		2/3/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample	
		3/2/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample	
		4/6/2004	< 0.00035	Bq/m3	< 0.0095	pCi/m3	Sample	
		5/4/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample	
		6/1/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample	
		1/6/2004	0.00027	Bq/m3	0.0074	pCi/m3	Sample	
		1/13/2004	0.00096	Bq/m3	0.026	pCi/m3	Sample	
		1/20/2004	0.0011	Bq/m3	0.03	pCi/m3	Sample	
		1/27/2004	0.00074	Bq/m3	0.02	pCi/m3	Sample	
		2/3/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample	
		2/10/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample	
		2/17/2004	0.00089	Bq/m3	0.024	pCi/m3	Sample	
		2/24/2004	0.00045	Bq/m3	0.012	pCi/m3	Sample	
		3/2/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample	

\* See the table at the beginning of this document for descriptions of sampling locations

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## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross beta	B88 Cave 0	3/9/2004	0.001	Bq/m3	0.028	pCi/m3	Sample
<i>continued</i>		3/16/2004	0.0007	Bq/m3	0.019	pCi/m3	Sample
		3/23/2004	0.00073	Bq/m3	0.02	pCi/m3	Sample
		3/30/2004	0.00044	Bq/m3	0.012	pCi/m3	Sample
		4/6/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		4/13/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		4/20/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		4/27/2004	0.00049	Bq/m3	0.013	pCi/m3	Sample
		5/4/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		5/11/2004	0.00051	Bq/m3	0.014	pCi/m3	Sample
		5/18/2004	< 0.00045	Bq/m3	< 0.012	pCi/m3	Sample
		5/25/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		6/1/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
	B88-135H	1/6/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		2/3/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		3/2/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		4/6/2004	< 0.00035	Bq/m3	< 0.0095	pCi/m3	Sample
		5/4/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		6/1/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
	Travel Blank	1/6/2004	< 0.19	Bq/S	< 5	pCi/S	Blank
		1/6/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		1/13/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		1/20/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		1/27/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		2/3/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		2/3/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		2/10/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		2/17/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		2/24/2004	< 0.19	Bq/S	< 5	pCi/S	Blank
		3/2/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		3/2/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		3/9/2004	< 0.19	Bq/S	< 5	pCi/S	Blank
		3/16/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		3/23/2004	< 0.19	Bq/S	< 5	pCi/S	Blank
		3/30/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		4/6/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		4/6/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		4/13/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		4/20/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		4/27/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		5/4/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		5/4/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		5/11/2004	< 0.19	Bq/S	< 5	pCi/S	Blank
		5/18/2004	< 0.22	Bq/S	< 6	pCi/S	Blank

\* See the table at the beginning of this document for descriptions of sampling locations

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## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross beta <i>continued</i>	Travel Blank	5/25/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		6/1/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		6/1/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
I-125	1-373H	1/6/2004	< 0.00029	Bq/m <sup>3</sup>	< 0.0078	pCi/m <sup>3</sup>	Sample
		2/3/2004	< 0.00029	Bq/m <sup>3</sup>	< 0.0078	pCi/m <sup>3</sup>	Sample
		3/2/2004	< 0.00029	Bq/m <sup>3</sup>	< 0.0078	pCi/m <sup>3</sup>	Sample
		4/6/2004	< 0.00023	Bq/m <sup>3</sup>	< 0.0063	pCi/m <sup>3</sup>	Sample
		5/4/2004	< 0.00029	Bq/m <sup>3</sup>	< 0.0079	pCi/m <sup>3</sup>	Sample
		6/1/2004	0.0012	Bq/m <sup>3</sup>	0.034	pCi/m <sup>3</sup>	Sample
		55-128	0.26	Bq/m <sup>3</sup>	7.1	pCi/m <sup>3</sup>	Sample
		2/3/2004	0.27	Bq/m <sup>3</sup>	7.4	pCi/m <sup>3</sup>	Sample
		3/2/2004	0.054	Bq/m <sup>3</sup>	1.5	pCi/m <sup>3</sup>	Sample
		4/6/2004	0.43	Bq/m <sup>3</sup>	12	pCi/m <sup>3</sup>	Sample
55-128 Backup		5/4/2004	0.084	Bq/m <sup>3</sup>	2.3	pCi/m <sup>3</sup>	Sample
		6/1/2004	0.45	Bq/m <sup>3</sup>	12	pCi/m <sup>3</sup>	Sample
		4/6/2004	0.002	Bq/m <sup>3</sup>	0.055	pCi/m <sup>3</sup>	Sample
		5/4/2004	< 0.00029	Bq/m <sup>3</sup>	< 0.0079	pCi/m <sup>3</sup>	Sample
		6/1/2004	0.009	Bq/m <sup>3</sup>	0.24	pCi/m <sup>3</sup>	Sample
		70-147A	< 0.00015	Bq/m <sup>3</sup>	< 0.004	pCi/m <sup>3</sup>	Sample
		1/13/2004	< 0.0003	Bq/m <sup>3</sup>	< 0.008	pCi/m <sup>3</sup>	Sample
		1/20/2004	0.00029	Bq/m <sup>3</sup>	0.0079	pCi/m <sup>3</sup>	Sample
		1/27/2004	< 0.00022	Bq/m <sup>3</sup>	< 0.006	pCi/m <sup>3</sup>	Sample
		2/3/2004	< 0.00029	Bq/m <sup>3</sup>	< 0.0079	pCi/m <sup>3</sup>	Sample
70-147A		2/10/2004	< 0.00022	Bq/m <sup>3</sup>	< 0.006	pCi/m <sup>3</sup>	Sample
		2/17/2004	< 0.0003	Bq/m <sup>3</sup>	< 0.0081	pCi/m <sup>3</sup>	Sample
		2/24/2004	< 0.00024	Bq/m <sup>3</sup>	< 0.0066	pCi/m <sup>3</sup>	Sample
		3/9/2004	0.00033	Bq/m <sup>3</sup>	0.0088	pCi/m <sup>3</sup>	Sample
		3/16/2004	0.00027	Bq/m <sup>3</sup>	0.0073	pCi/m <sup>3</sup>	Sample
		3/23/2004	< 0.00022	Bq/m <sup>3</sup>	< 0.0059	pCi/m <sup>3</sup>	Sample
		3/30/2004	< 0.00022	Bq/m <sup>3</sup>	< 0.0059	pCi/m <sup>3</sup>	Sample
		4/6/2004	< 0.00029	Bq/m <sup>3</sup>	< 0.0079	pCi/m <sup>3</sup>	Sample
		4/13/2004	< 0.0003	Bq/m <sup>3</sup>	< 0.008	pCi/m <sup>3</sup>	Sample
		4/20/2004	< 0.00029	Bq/m <sup>3</sup>	< 0.0079	pCi/m <sup>3</sup>	Sample
		4/27/2004	< 0.00022	Bq/m <sup>3</sup>	< 0.006	pCi/m <sup>3</sup>	Sample
		5/4/2004	< 0.00029	Bq/m <sup>3</sup>	< 0.0079	pCi/m <sup>3</sup>	Sample
		5/11/2004	< 0.00029	Bq/m <sup>3</sup>	< 0.0079	pCi/m <sup>3</sup>	Sample
		5/18/2004	< 0.00022	Bq/m <sup>3</sup>	< 0.006	pCi/m <sup>3</sup>	Sample
		5/25/2004	< 0.00022	Bq/m <sup>3</sup>	< 0.0059	pCi/m <sup>3</sup>	Sample
85 Glovebox		6/1/2004	< 0.00022	Bq/m <sup>3</sup>	< 0.006	pCi/m <sup>3</sup>	Sample
		1/6/2004	< 0.00015	Bq/m <sup>3</sup>	< 0.0039	pCi/m <sup>3</sup>	Sample
		1/13/2004	< 0.00022	Bq/m <sup>3</sup>	< 0.0059	pCi/m <sup>3</sup>	Sample
		1/20/2004	< 0.00022	Bq/m <sup>3</sup>	< 0.0059	pCi/m <sup>3</sup>	Sample
		1/27/2004	0.00025	Bq/m <sup>3</sup>	0.0067	pCi/m <sup>3</sup>	Sample
		2/3/2004	< 0.00029	Bq/m <sup>3</sup>	< 0.0078	pCi/m <sup>3</sup>	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "&lt;" flag

## Berkeley Lab EH&amp;S Environmental Services Sampling Data

July 12, 2004

## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
I-125	85 Glovebox	2/10/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
continued		2/17/2004	< 0.00029	Bq/m3	< 0.008	pCi/m3	Sample
		2/24/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		3/2/2004	< 0.00029	Bq/m3	< 0.0079	pCi/m3	Sample
		3/9/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		3/16/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		3/23/2004	0.00028	Bq/m3	0.0076	pCi/m3	Sample
		3/30/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		4/6/2004	< 0.0003	Bq/m3	< 0.008	pCi/m3	Sample
		4/13/2004	< 0.00029	Bq/m3	< 0.0078	pCi/m3	Sample
		4/20/2004	0.0003	Bq/m3	0.008	pCi/m3	Sample
		4/27/2004	0.00026	Bq/m3	0.0071	pCi/m3	Sample
		5/4/2004	< 0.00029	Bq/m3	< 0.0079	pCi/m3	Sample
		5/11/2004	< 0.00029	Bq/m3	< 0.0078	pCi/m3	Sample
		5/18/2004	< 0.00022	Bq/m3	< 0.006	pCi/m3	Sample
		5/25/2004	< 0.00022	Bq/m3	< 0.0059	pCi/m3	Sample
		6/1/2004	< 0.00029	Bq/m3	< 0.0078	pCi/m3	Sample
	85 Hood	1/6/2004	< 0.0003	Bq/m3	< 0.008	pCi/m3	Sample
		1/13/2004	< 0.00055	Bq/m3	< 0.015	pCi/m3	Sample
		1/20/2004	< 0.00041	Bq/m3	< 0.011	pCi/m3	Sample
		1/27/2004	< 0.00039	Bq/m3	< 0.011	pCi/m3	Sample
		2/3/2004	< 0.0004	Bq/m3	< 0.011	pCi/m3	Sample
		2/10/2004	< 0.00028	Bq/m3	< 0.0077	pCi/m3	Sample
		2/17/2004	< 0.00044	Bq/m3	< 0.012	pCi/m3	Sample
		2/24/2004	< 0.00032	Bq/m3	< 0.0086	pCi/m3	Sample
		3/2/2004	< 0.00033	Bq/m3	< 0.0089	pCi/m3	Sample
		3/9/2004	< 0.00036	Bq/m3	< 0.0097	pCi/m3	Sample
		3/16/2004	< 0.00036	Bq/m3	< 0.0097	pCi/m3	Sample
		3/23/2004	0.0084	Bq/m3	0.23	pCi/m3	Sample
		3/30/2004	0.00037	Bq/m3	0.01	pCi/m3	Sample
		4/6/2004	< 0.00047	Bq/m3	< 0.013	pCi/m3	Sample
		4/13/2004	< 0.00043	Bq/m3	< 0.012	pCi/m3	Sample
		4/20/2004	< 0.00039	Bq/m3	< 0.011	pCi/m3	Sample
		4/27/2004	< 0.00028	Bq/m3	< 0.0077	pCi/m3	Sample
		5/4/2004	< 0.0004	Bq/m3	< 0.011	pCi/m3	Sample
		5/11/2004	< 0.00042	Bq/m3	< 0.011	pCi/m3	Sample
		5/18/2004	0.0043	Bq/m3	0.12	pCi/m3	Sample
		5/25/2004	< 0.00029	Bq/m3	< 0.0078	pCi/m3	Sample
		6/1/2004	< 0.00054	Bq/m3	< 0.015	pCi/m3	Sample
	Travel Blank	1/6/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		1/6/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		1/13/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		1/20/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		1/27/2004	< 0.11	Bq/S	< 3	pCi/S	Blank

\* See the table at the beginning of this document for descriptions of sampling locations

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\*\* See the discussion at the beginning of this document for an explanation of the "&lt;" flag

## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
I-125	Travel Blank	2/3/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
continued		2/3/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		2/10/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		2/17/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		2/24/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		3/2/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		3/2/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		3/9/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		3/16/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		3/23/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		3/30/2004	< 0.14	Bq/S	< 3.8	pCi/S	Blank
		4/6/2004	< 0.15	Bq/S	< 4	pCi/S	Blank
		4/6/2004	< 0.15	Bq/S	< 4	pCi/S	Blank
		4/13/2004	< 0.15	Bq/S	< 4	pCi/S	Blank
		4/20/2004	< 0.15	Bq/S	< 4	pCi/S	Blank
		4/27/2004	0.13	Bq/S	3.5	pCi/S	Blank
		5/4/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		5/4/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		5/11/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		5/18/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		5/25/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		6/1/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
		6/1/2004	< 0.11	Bq/S	< 3	pCi/S	Blank
Tritium	1-373H	1/6/2004	< 0.32	Bq/m <sup>3</sup>	< 8.7	pCi/m <sup>3</sup>	Sample
		2/3/2004	< 0.26	Bq/m <sup>3</sup>	< 7.1	pCi/m <sup>3</sup>	Sample
		3/2/2004	< 0.33	Bq/m <sup>3</sup>	< 9	pCi/m <sup>3</sup>	Sample
		4/6/2004	< 0.088	Bq/m <sup>3</sup>	< 2.4	pCi/m <sup>3</sup>	Sample
		5/4/2004	< 0.12	Bq/m <sup>3</sup>	< 3.3	pCi/m <sup>3</sup>	Sample
		6/1/2004	0.11	Bq/m <sup>3</sup>	2.9	pCi/m <sup>3</sup>	Sample
	70-147A	1/6/2004	0.1	Bq/m <sup>3</sup>	2.8	pCi/m <sup>3</sup>	Sample
		1/13/2004	< 0.29	Bq/m <sup>3</sup>	< 7.9	pCi/m <sup>3</sup>	Sample
		1/20/2004	< 0.27	Bq/m <sup>3</sup>	< 7.3	pCi/m <sup>3</sup>	Sample
		1/27/2004	< 0.32	Bq/m <sup>3</sup>	< 8.6	pCi/m <sup>3</sup>	Sample
		2/3/2004	< 0.15	Bq/m <sup>3</sup>	< 4.1	pCi/m <sup>3</sup>	Sample
		2/10/2004	< 0.28	Bq/m <sup>3</sup>	< 7.7	pCi/m <sup>3</sup>	Sample
		2/17/2004	< 0.28	Bq/m <sup>3</sup>	< 7.4	pCi/m <sup>3</sup>	Sample
		2/24/2004	< 0.34	Bq/m <sup>3</sup>	< 9.2	pCi/m <sup>3</sup>	Sample
		3/9/2004	< 0.31	Bq/m <sup>3</sup>	< 8.4	pCi/m <sup>3</sup>	Sample
		3/16/2004	< 0.31	Bq/m <sup>3</sup>	< 8.4	pCi/m <sup>3</sup>	Sample
		3/23/2004	< 0.26	Bq/m <sup>3</sup>	< 7.1	pCi/m <sup>3</sup>	Sample
		3/30/2004	< 0.3	Bq/m <sup>3</sup>	< 8.1	pCi/m <sup>3</sup>	Sample
		4/6/2004	< 0.28	Bq/m <sup>3</sup>	< 7.6	pCi/m <sup>3</sup>	Sample
		4/13/2004	< 0.27	Bq/m <sup>3</sup>	< 7.4	pCi/m <sup>3</sup>	Sample
		4/20/2004	< 0.25	Bq/m <sup>3</sup>	< 6.8	pCi/m <sup>3</sup>	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "&lt;" flag

## Berkeley Lab EH&amp;S Environmental Services Sampling Data

July 12, 2004

## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Tritium	70-147A	4/27/2004	< 0.34	Bq/m3	< 9.1	pCi/m3	Sample
<i>continued</i>		5/4/2004	< 0.15	Bq/m3	< 4.1	pCi/m3	Sample
		5/11/2004	< 0.37	Bq/m3	< 10	pCi/m3	Sample
		5/18/2004	< 0.25	Bq/m3	< 6.7	pCi/m3	Sample
		5/25/2004	< 0.26	Bq/m3	< 6.9	pCi/m3	Sample
	75-107H	1/6/2004	58	Bq/m3	1600	pCi/m3	Sample
		2/3/2004	55	Bq/m3	1500	pCi/m3	Sample
		4/6/2004	53	Bq/m3	1400	pCi/m3	Sample
		4/6/2004	58	Bq/m3	1600	pCi/m3	Split
		5/4/2004	47	Bq/m3	1300	pCi/m3	Sample
		5/4/2004	54	Bq/m3	1500	pCi/m3	Split
		6/1/2004	50	Bq/m3	1300	pCi/m3	Sample
		6/1/2004	55	Bq/m3	1500	pCi/m3	Split
	75-112B	1/6/2004	0.29	Bq/m3	7.9	pCi/m3	Sample
		2/3/2004	0.17	Bq/m3	4.5	pCi/m3	Sample
		3/2/2004	0.25	Bq/m3	6.7	pCi/m3	Sample
		4/6/2004	0.31	Bq/m3	8.5	pCi/m3	Sample
		5/4/2004	0.27	Bq/m3	7.2	pCi/m3	Sample
		6/1/2004	0.16	Bq/m3	4.3	pCi/m3	Sample
	75-127-H	1/6/2004	0.34	Bq/m3	9.3	pCi/m3	Sample
		2/3/2004	0.24	Bq/m3	6.6	pCi/m3	Sample
		3/2/2004	0.42	Bq/m3	11	pCi/m3	Sample
		4/6/2004	0.42	Bq/m3	11	pCi/m3	Sample
		5/4/2004	0.23	Bq/m3	6.3	pCi/m3	Sample
		6/1/2004	0.26	Bq/m3	6.9	pCi/m3	Sample
	85 Glovebox	1/6/2004	0.92	Bq/m3	25	pCi/m3	Sample
		1/13/2004	1.5	Bq/m3	42	pCi/m3	Sample
		1/13/2004	1.5	Bq/m3	39	pCi/m3	Split
		1/20/2004	1.1	Bq/m3	30	pCi/m3	Sample
		1/27/2004	0.84	Bq/m3	23	pCi/m3	Sample
		2/3/2004	1.3	Bq/m3	36	pCi/m3	Sample
		2/10/2004	1.1	Bq/m3	29	pCi/m3	Sample
		2/17/2004	0.8	Bq/m3	21	pCi/m3	Sample
		2/24/2004	0.83	Bq/m3	22	pCi/m3	Sample
		3/2/2004	0.47	Bq/m3	13	pCi/m3	Sample
		3/9/2004	0.95	Bq/m3	26	pCi/m3	Sample
		3/16/2004	0.7	Bq/m3	19	pCi/m3	Sample
		3/23/2004	0.96	Bq/m3	26	pCi/m3	Sample
		3/30/2004	0.8	Bq/m3	22	pCi/m3	Sample
		4/6/2004	0.8	Bq/m3	21	pCi/m3	Sample
		4/13/2004	0.91	Bq/m3	25	pCi/m3	Sample
		4/20/2004	0.77	Bq/m3	21	pCi/m3	Sample
		4/27/2004	0.88	Bq/m3	24	pCi/m3	Sample
		5/4/2004	1.4	Bq/m3	38	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

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\*\* See the discussion at the beginning of this document for an explanation of the "&lt;" flag

## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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## Stack Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Tritium	85 Glovebox	5/11/2004	1.2	Bq/m3	31	pCi/m3	Sample
<i>continued</i>		5/18/2004	1.2	Bq/m3	32	pCi/m3	Sample
		5/25/2004	1.5	Bq/m3	41	pCi/m3	Sample
		6/1/2004	1.9	Bq/m3	50	pCi/m3	Sample
	85 Hood	1/6/2004	7.7	Bq/m3	210	pCi/m3	Sample
		1/13/2004	8.2	Bq/m3	220	pCi/m3	Sample
		1/20/2004	10	Bq/m3	280	pCi/m3	Sample
		1/27/2004	10	Bq/m3	270	pCi/m3	Sample
		2/3/2004	13	Bq/m3	350	pCi/m3	Sample
		2/10/2004	11	Bq/m3	300	pCi/m3	Sample
		2/17/2004	7.1	Bq/m3	190	pCi/m3	Sample
		2/24/2004	8.3	Bq/m3	220	pCi/m3	Sample
		3/2/2004	18	Bq/m3	470	pCi/m3	Sample
		3/9/2004	18	Bq/m3	480	pCi/m3	Sample
		3/16/2004	6.6	Bq/m3	180	pCi/m3	Sample
		3/23/2004	9	Bq/m3	240	pCi/m3	Sample
		3/30/2004	7.7	Bq/m3	210	pCi/m3	Sample
		4/6/2004	6.6	Bq/m3	180	pCi/m3	Sample
		4/13/2004	20	Bq/m3	530	pCi/m3	Sample
		4/20/2004	26	Bq/m3	720	pCi/m3	Sample
		4/27/2004	11	Bq/m3	280	pCi/m3	Sample
		5/4/2004	15	Bq/m3	400	pCi/m3	Sample
		5/11/2004	13	Bq/m3	360	pCi/m3	Sample
		5/18/2004	12	Bq/m3	330	pCi/m3	Sample
		6/1/2004	12	Bq/m3	340	pCi/m3	Sample
	NTLF Hillside Stack	1/6/2004	7.4	Bq/m3	200	pCi/m3	Sample
		2/3/2004	8.5	Bq/m3	230	pCi/m3	Sample
		3/2/2004	13	Bq/m3	350	pCi/m3	Sample
		3/2/2004	13	Bq/m3	350	pCi/m3	Split
		4/6/2004	8.8	Bq/m3	240	pCi/m3	Sample
		4/6/2004	12	Bq/m3	310	pCi/m3	Split
		5/4/2004	8.8	Bq/m3	240	pCi/m3	Sample
		5/4/2004	7.9	Bq/m3	210	pCi/m3	Split
		6/1/2004	9	Bq/m3	240	pCi/m3	Sample
		6/1/2004	9.3	Bq/m3	250	pCi/m3	Split
	NTLF Hillside Stack Drain	1/8/2004	51000	Bq/L	1400000	pCi/L	Sample
		1/8/2004	26000	Bq/L	690000	pCi/L	Sample
		2/18/2004	23000	Bq/L	630000	pCi/L	Sample
		2/23/2004	100000	Bq/L	2800000	pCi/L	Sample
		3/30/2004	26000	Bq/L	710000	pCi/L	Sample
	Travel Blank	1/6/2004	< 0.24	Bq/S	< 6.4	pCi/S	Blank
		1/6/2004	< 0.26	Bq/S	< 6.9	pCi/S	Blank
		1/13/2004	< 0.25	Bq/S	< 6.8	pCi/S	Blank

\* See the table at the beginning of this document for descriptions of sampling locations

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\*\* See the discussion at the beginning of this document for an explanation of the "&lt;" flag

## Berkeley Lab EH&amp;S Environmental Services Sampling Data

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*Stack Air Monitoring – Radiological Activity*

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Tritium	Travel Blank	1/20/2004	< 0.24	Bq/S	< 6.6	pCi/S	Blank
<i>continued</i>		1/27/2004	< 0.25	Bq/S	< 6.6	pCi/S	Blank
		2/3/2004	< 0.21	Bq/S	< 5.7	pCi/S	Blank
		2/3/2004	< 0.23	Bq/S	< 6.3	pCi/S	Blank
		2/10/2004	< 0.23	Bq/S	< 6.3	pCi/S	Blank
		2/17/2004	< 0.19	Bq/S	< 5.2	pCi/S	Blank
		2/24/2004	< 0.24	Bq/S	< 6.5	pCi/S	Blank
		3/2/2004	< 0.14	Bq/S	< 3.7	pCi/S	Blank
		3/2/2004	< 0.25	Bq/S	< 6.8	pCi/S	Blank
		3/9/2004	< 0.22	Bq/S	< 6.1	pCi/S	Blank
		3/16/2004	< 0.21	Bq/S	< 5.6	pCi/S	Blank
		3/23/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		3/30/2004	< 0.28	Bq/S	< 7.4	pCi/S	Blank
		4/6/2004	< 0.22	Bq/S	< 5.8	pCi/S	Blank
		4/6/2004	< 0.16	Bq/S	< 4.2	pCi/S	Blank
		4/13/2004	< 0.24	Bq/S	< 6.6	pCi/S	Blank
		4/20/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		4/27/2004	< 0.24	Bq/S	< 6.4	pCi/S	Blank
		5/4/2004	< 0.25	Bq/S	< 6.7	pCi/S	Blank
		5/4/2004	< 0.22	Bq/S	< 5.8	pCi/S	Blank
		5/11/2004	< 0.22	Bq/S	< 6.1	pCi/S	Blank
		5/18/2004	< 0.22	Bq/S	< 6	pCi/S	Blank
		5/25/2004	< 0.26	Bq/S	< 7.1	pCi/S	Blank
		6/1/2004	< 0.25	Bq/S	< 6.8	pCi/S	Blank
		6/1/2004	< 0.23	Bq/S	< 6.1	pCi/S	Blank

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "&lt;" flag

# Ambient Air Monitoring

## Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross alpha	ENV-69	1/5/2004	< 0.000023	Bq/m3	< 0.00062	pCi/m3	Sample
		2/2/2004	0.000064	Bq/m3	0.0017	pCi/m3	Sample
		3/1/2004	0.000028	Bq/m3	0.00076	pCi/m3	Sample
		4/5/2004	0.000038	Bq/m3	0.001	pCi/m3	Sample
		5/3/2004	0.000043	Bq/m3	0.0012	pCi/m3	Sample
	ENV-80	1/5/2004	< 0.000026	Bq/m3	< 0.00069	pCi/m3	Sample
		2/2/2004	0.000058	Bq/m3	0.0016	pCi/m3	Sample
		3/1/2004	0.000036	Bq/m3	0.00096	pCi/m3	Sample
		4/5/2004	0.000057	Bq/m3	0.0015	pCi/m3	Sample
		5/3/2004	0.000061	Bq/m3	0.0016	pCi/m3	Sample
ENV-81	ENV-81	1/5/2004	0.000026	Bq/m3	0.00069	pCi/m3	Sample
		2/2/2004	0.000052	Bq/m3	0.0014	pCi/m3	Sample
		3/1/2004	0.000062	Bq/m3	0.0017	pCi/m3	Sample
		4/5/2004	0.000029	Bq/m3	0.00077	pCi/m3	Sample
		5/3/2004	0.000035	Bq/m3	0.00095	pCi/m3	Sample
ENV-B13C	ENV-B13C	1/5/2004	< 0.000034	Bq/m3	< 0.00093	pCi/m3	Sample
		2/2/2004	0.000065	Bq/m3	0.0018	pCi/m3	Sample
		3/1/2004	0.000025	Bq/m3	0.00066	pCi/m3	Sample
		4/5/2004	0.000034	Bq/m3	0.00092	pCi/m3	Sample
		5/3/2004	< 0.000029	Bq/m3	< 0.00078	pCi/m3	Sample
Travel Blank	Travel Blank	1/5/2004	< 0.01	Bq/S	< 0.27	pCi/S	Blank
		2/2/2004	< 0.01	Bq/S	< 0.28	pCi/S	Blank
		3/1/2004	< 0.0095	Bq/S	< 0.26	pCi/S	Blank
		4/5/2004	< 0.0095	Bq/S	< 0.26	pCi/S	Blank
		5/3/2004	< 0.014	Bq/S	< 0.39	pCi/S	Blank
Gross beta	ENV-69	1/5/2004	0.00035	Bq/m3	0.0094	pCi/m3	Sample
		2/2/2004	0.00055	Bq/m3	0.015	pCi/m3	Sample
		3/1/2004	0.00036	Bq/m3	0.0098	pCi/m3	Sample
		4/5/2004	0.00032	Bq/m3	0.0086	pCi/m3	Sample
		5/3/2004	0.0003	Bq/m3	0.0082	pCi/m3	Sample
	ENV-80	1/5/2004	0.00044	Bq/m3	0.012	pCi/m3	Sample
		2/2/2004	0.00087	Bq/m3	0.024	pCi/m3	Sample
		3/1/2004	0.00041	Bq/m3	0.011	pCi/m3	Sample
		4/5/2004	0.00039	Bq/m3	0.01	pCi/m3	Sample
		5/3/2004	0.00044	Bq/m3	0.012	pCi/m3	Sample
	ENV-81	1/5/2004	0.00037	Bq/m3	0.01	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "<" flag

Berkeley Lab EH&S Environmental Services Sampling Data

July 12, 2004

Ambient Air Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross beta <i>continued</i>	ENV-81	2/2/2004	0.00063	Bq/m3	0.017	pCi/m3	Sample
		3/1/2004	0.00041	Bq/m3	0.011	pCi/m3	Sample
		4/5/2004	0.00032	Bq/m3	0.0085	pCi/m3	Sample
		5/3/2004	0.00038	Bq/m3	0.01	pCi/m3	Sample
		1/5/2004	0.00042	Bq/m3	0.011	pCi/m3	Sample
	ENV-B13C	2/2/2004	0.00072	Bq/m3	0.019	pCi/m3	Sample
		3/1/2004	0.00035	Bq/m3	0.0096	pCi/m3	Sample
		4/5/2004	0.00033	Bq/m3	0.0089	pCi/m3	Sample
		5/3/2004	0.00043	Bq/m3	0.012	pCi/m3	Sample
		Travel Blank	< 0.021	Bq/S	< 0.57	pCi/S	Blank
		2/2/2004	< 0.022	Bq/S	< 0.58	pCi/S	Blank
		3/1/2004	< 0.022	Bq/S	< 0.59	pCi/S	Blank
		4/5/2004	< 0.023	Bq/S	< 0.63	pCi/S	Blank
		5/3/2004	< 0.027	Bq/S	< 0.74	pCi/S	Blank
		1/5/2004	< 0.12	Bq/m3	< 3.1	pCi/m3	Sample
	Tritium	2/2/2004	< 0.13	Bq/m3	< 3.4	pCi/m3	Sample
		3/1/2004	< 0.067	Bq/m3	< 1.8	pCi/m3	Sample
		4/5/2004	< 0.1	Bq/m3	< 2.7	pCi/m3	Sample
		4/5/2004	< 0.064	Bq/m3	< 1.7	pCi/m3	Split
		5/3/2004	< 0.12	Bq/m3	< 3.4	pCi/m3	Sample
	ENV-85	1/5/2004	< 0.097	Bq/m3	< 2.6	pCi/m3	Sample
		2/2/2004	< 0.096	Bq/m3	< 2.6	pCi/m3	Sample
		3/1/2004	< 0.089	Bq/m3	< 2.4	pCi/m3	Sample
		4/5/2004	< 0.062	Bq/m3	< 1.7	pCi/m3	Sample
		5/3/2004	< 0.063	Bq/m3	< 1.7	pCi/m3	Sample
	ENV-B13A	5/3/2004	< 0.069	Bq/m3	< 1.9	pCi/m3	Split
		1/5/2004	< 0.064	Bq/m3	< 1.7	pCi/m3	Sample
		2/2/2004	< 0.063	Bq/m3	< 1.7	pCi/m3	Sample
		2/2/2004	< 0.066	Bq/m3	< 1.8	pCi/m3	Split
		3/1/2004	< 0.066	Bq/m3	< 1.8	pCi/m3	Sample
	ENV-B13C	4/5/2004	< 0.059	Bq/m3	< 1.6	pCi/m3	Sample
		5/3/2004	< 0.067	Bq/m3	< 1.8	pCi/m3	Sample
		1/5/2004	< 0.065	Bq/m3	< 1.8	pCi/m3	Sample
		2/2/2004	< 0.069	Bq/m3	< 1.9	pCi/m3	Sample
		3/1/2004	< 0.069	Bq/m3	< 1.9	pCi/m3	Sample
	ENV-B13D	3/1/2004	< 0.065	Bq/m3	< 1.8	pCi/m3	Split
		4/5/2004	< 0.074	Bq/m3	< 2	pCi/m3	Sample
		5/3/2004	< 0.079	Bq/m3	< 2.1	pCi/m3	Sample
		1/5/2004	< 0.063	Bq/m3	< 1.7	pCi/m3	Sample
		1/5/2004	< 0.069	Bq/m3	< 1.9	pCi/m3	Sample
	ENV-LHS	1/5/2004	< 0.068	Bq/m3	< 1.8	pCi/m3	Split
		2/2/2004	< 0.069	Bq/m3	< 1.9	pCi/m3	Sample
		3/1/2004	< 0.07	Bq/m3	< 1.9	pCi/m3	Sample
		4/5/2004	< 0.076	Bq/m3	< 2.1	pCi/m3	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "<" flag

**Berkeley Lab EH&S Environmental Services Sampling Data****July 12, 2004****Ambient Air Monitoring – Radiological Activity**

Analyte	Location*	Date	<u>Système Int'l.</u>		<u>Conventional</u>		Location*
			Result**	Units	Result**	Analyte	
Tritium <i>continued</i>	ENV-LHS	5/3/2004	< 0.074	Bq/m3	< 2	pCi/m3	Sample
	Travel Blank	1/5/2004	< 0.2	Bq/S	< 5.3	pCi/S	Blank
		2/2/2004	< 0.18	Bq/S	< 4.9	pCi/S	Blank
		3/1/2004	< 0.29	Bq/S	< 7.9	pCi/S	Blank
		4/5/2004	< 0.25	Bq/S	< 6.9	pCi/S	Blank
		5/3/2004	< 0.19	Bq/S	< 5.1	pCi/S	Blank

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "<" flag

# Rain Water Monitoring

## ***Radiological Activity***

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
Gross alpha	ENV-75	2/2/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
		2/27/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
		3/30/2004	< 0.074	Bq/L	< 2	pCi/L	Sample
Gross beta		2/2/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
		2/27/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
		3/30/2004	0.17	Bq/L	4.6	pCi/L	Sample
Tritium		2/2/2004	< 5.4	Bq/L	< 150	pCi/L	Sample
		2/27/2004	< 6.1	Bq/L	< 160	pCi/L	Sample
		3/30/2004	< 5.7	Bq/L	< 160	pCi/L	Sample

\* See the table at the beginning of this document for descriptions of sampling locations  
 \*\* See the discussion at the beginning of this document for an explanation of the "<" flag

# Creek Water Monitoring

## **Radiological Activity**

Analyte	Location*	Date	<u>Système Int'l.</u>		<u>Conventional</u>		Location*
			Result**	Units	Result**	Analyte	
Gross alpha	Chicken Creek	3/15/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
	N. Fork Strawberry Creek	3/15/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
	Strawberry Creek (UC)	3/15/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
Gross beta	Chicken Creek	3/15/2004	< 0.15	Bq/L	< 4	pCi/L	Sample
	N. Fork Strawberry Creek	3/15/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
	Strawberry Creek (UC)	3/15/2004	< 0.15	Bq/L	< 4	pCi/L	Sample
Tritium	Chicken Creek	3/15/2004	9.3	Bq/L	250	pCi/L	Sample
	N. Fork Strawberry Creek	3/15/2004	6.9	Bq/L	190	pCi/L	Sample
	Strawberry Creek (UC)	3/15/2004	< 6.4	Bq/L	< 170	pCi/L	Sample

\* See the table at the beginning of this document for descriptions of sampling locations  
 \*\* See the discussion at the beginning of this document for an explanation of the "<" flag

# Stormwater Monitoring

## **Radiological Activity**

Analyte	Location*	Date	Système Int'l.		Conventional		
			Result**	Units	Result**	Analyte	Location*
Gross alpha	69-Storm Drain Manhole	2/25/2004	< 0.067	Bq/L	< 1.8	pCi/L	Sample
	Chicken Creek	2/25/2004	< 0.063	Bq/L	< 1.7	pCi/L	Sample
	East Canyon	2/25/2004	< 0.067	Bq/L	< 1.8	pCi/L	Sample
	N. Fork Strawberry Creek	2/25/2004	< 0.074	Bq/L	< 2	pCi/L	Sample
Gross beta	69-Storm Drain Manhole	2/25/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
	Chicken Creek	2/25/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
	East Canyon	2/25/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
	N. Fork Strawberry Creek	2/25/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
Tritium	69-Storm Drain Manhole	2/25/2004	< 5.6	Bq/L	< 150	pCi/L	Sample
	Chicken Creek	2/25/2004	< 5.6	Bq/L	< 150	pCi/L	Sample
	East Canyon	2/25/2004	< 5.6	Bq/L	< 150	pCi/L	Sample
	N. Fork Strawberry Creek	2/25/2004	< 5.5	Bq/L	< 150	pCi/L	Sample

## **General Indicator Parameters**

Analyte	Location*	Date	Result**	Units	QA Type
Chemical Oxygen Demand	69-Storm Drain Manhole	2/25/2004	59	mg/L	Sample
	Chicken Creek	2/25/2004	70	mg/L	Sample
	East Canyon	2/25/2004	36	mg/L	Sample
	N. Fork Strawberry Creek	2/25/2004	50	mg/L	Sample
pH	69-Storm Drain Manhole	2/25/2004	7.4	S.U.	Sample
	Chicken Creek	2/25/2004	7.4	S.U.	Sample
	East Canyon	2/25/2004	7.3	S.U.	Sample
	N. Fork Strawberry Creek	2/25/2004	7.9	S.U.	Sample
Specific Conductance	69-Storm Drain Manhole	2/25/2004	80	µhos/cm	Sample
	Chicken Creek	2/25/2004	54	µhos/cm	Sample
	East Canyon	2/25/2004	90	µhos/cm	Sample
	N. Fork Strawberry Creek	2/25/2004	320	µhos/cm	Sample
Total suspended solids (TSS)	69-Storm Drain Manhole	2/25/2004	16	mg/L	Sample
	Chicken Creek	2/25/2004	420	mg/L	Sample
	East Canyon	2/25/2004	87	mg/L	Sample
	N. Fork Strawberry Creek	2/25/2004	29	mg/L	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "<" flag

**Metals and/or Minerals**

Analyte	Location*	Date	Result**	Units	QA Type
Aluminum	69-Storm Drain Manhole	2/25/2004	1.1	mg/L	Sample
	Chicken Creek	2/25/2004	12	mg/L	Sample
	East Canyon	2/25/2004	4.5	mg/L	Sample
	N. Fork Strawberry Creek	2/25/2004	0.78	mg/L	Sample
Iron	69-Storm Drain Manhole	2/25/2004	1.2	mg/L	Sample
	Chicken Creek	2/25/2004	13	mg/L	Sample
	East Canyon	2/25/2004	4.9	mg/L	Sample
	N. Fork Strawberry Creek	2/25/2004	0.95	mg/L	Sample
Magnesium	69-Storm Drain Manhole	2/25/2004	3.3	mg/L	Sample
	Chicken Creek	2/25/2004	6.8	mg/L	Sample
	East Canyon	2/25/2004	4.7	mg/L	Sample
	N. Fork Strawberry Creek	2/25/2004	13	mg/L	Sample
Zinc	69-Storm Drain Manhole	2/25/2004	< 0.5	mg/L	Sample
	Chicken Creek	2/25/2004	< 0.5	mg/L	Sample
	East Canyon	2/25/2004	< 0.5	mg/L	Sample
	N. Fork Strawberry Creek	2/25/2004	< 0.5	mg/L	Sample

**Nutrients**

Analyte	Location*	Date	Result**	Units	QA Type
Ammonia Nitrogen (as N)	69-Storm Drain Manhole	2/25/2004	0.09	mg/L	Sample
	Chicken Creek	2/25/2004	0.06	mg/L	Sample
	East Canyon	2/25/2004	0.1	mg/L	Sample
	N. Fork Strawberry Creek	2/25/2004	0.06	mg/L	Sample
Nitrate plus Nitrite (as N)	69-Storm Drain Manhole	2/25/2004	1.1	mg/L	Sample
	Chicken Creek	2/25/2004	0.1	mg/L	Sample
	East Canyon	2/25/2004	0.3	mg/L	Sample
	N. Fork Strawberry Creek	2/25/2004	0.63	mg/L	Sample

**Petroleum Hydrocarbons**

Analyte	Location*	Date	Result**	Units	QA Type
Diesel Fuel	69-Storm Drain Manhole	2/25/2004	78	µg/L	Sample
	Chicken Creek	2/25/2004	200	µg/L	Sample
	East Canyon	2/25/2004	130	µg/L	Sample
	N. Fork Strawberry Creek	2/25/2004	120	µg/L	Sample
Oil and Grease	69-Storm Drain Manhole	2/25/2004	< 5	mg/L	Sample
	Chicken Creek	2/25/2004	< 5	mg/L	Sample
	East Canyon	2/25/2004	< 5	mg/L	Sample
	N. Fork Strawberry Creek	2/25/2004	< 5	mg/L	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "<" flag

# Wastewater Monitoring

## ***Radiological Activity***

Analyte	Location*	Date	<u>Système Int'l.</u>		<u>Conventional</u>		Location*
			Result**	Units	Result**	Analyte	
Carbon 14	Field Blank	2/12/2004	< 4.8	Bq/L	< 130	pCi/L	Blank
		1/15/2004	< 4.8	Bq/L	< 130	pCi/L	Sample
		2/12/2004	< 4.8	Bq/L	< 130	pCi/L	Sample
		3/11/2004	< 4.8	Bq/L	< 130	pCi/L	Sample
		4/8/2004	< 5.2	Bq/L	< 140	pCi/L	Sample
	Strawberry Sewer	1/15/2004	< 4.8	Bq/L	< 130	pCi/L	Sample
		2/12/2004	< 4.8	Bq/L	< 130	pCi/L	Sample
		2/12/2004	< 4.8	Bq/L	< 130	pCi/L	Split
		3/11/2004	< 4.8	Bq/L	< 130	pCi/L	Sample
		4/8/2004	< 5.2	Bq/L	< 140	pCi/L	Sample
Gross alpha	Field Blank	2/12/2004	< 0.11	Bq/L	< 3	pCi/L	Blank
		1/15/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
		2/12/2004	< 0.074	Bq/L	< 2	pCi/L	Sample
		3/11/2004	< 0.074	Bq/L	< 2	pCi/L	Sample
		4/8/2004	< 0.074	Bq/L	< 2	pCi/L	Sample
	Strawberry Sewer	1/15/2004	< 0.11	Bq/L	< 3	pCi/L	Sample
		2/12/2004	< 0.07	Bq/L	< 1.9	pCi/L	Sample
		2/12/2004	< 0.07	Bq/L	< 1.9	pCi/L	Split
		3/11/2004	< 0.074	Bq/L	< 2	pCi/L	Sample
		4/8/2004	< 0.067	Bq/L	< 1.8	pCi/L	Sample
Gross beta	Field Blank	2/12/2004	< 0.11	Bq/L	< 3	pCi/L	Blank
		1/15/2004	0.15	Bq/L	4	pCi/L	Sample
		2/12/2004	0.32	Bq/L	8.7	pCi/L	Sample
		3/11/2004	0.31	Bq/L	8.3	pCi/L	Sample
		4/8/2004	0.35	Bq/L	9.4	pCi/L	Sample
	Strawberry Sewer	1/15/2004	0.15	Bq/L	4	pCi/L	Sample
		2/12/2004	0.25	Bq/L	6.7	pCi/L	Sample
		2/12/2004	0.21	Bq/L	5.8	pCi/L	Split
		3/11/2004	0.28	Bq/L	7.5	pCi/L	Sample
		4/8/2004	0.19	Bq/L	5.2	pCi/L	Sample
I-125	Field Blank	2/12/2004	< 0.52	Bq/L	< 14	pCi/L	Blank
		1/15/2004	< 0.59	Bq/L	< 16	pCi/L	Sample
		2/12/2004	< 0.59	Bq/L	< 16	pCi/L	Sample
	Hearst Sewer	3/11/2004	< 0.67	Bq/L	< 18	pCi/L	Sample
		4/8/2004	< 0.63	Bq/L	< 17	pCi/L	Sample
		1/15/2004	< 0.59	Bq/L	< 16	pCi/L	Sample
		2/12/2004	< 0.59	Bq/L	< 16	pCi/L	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

\*\* See the discussion at the beginning of this document for an explanation of the "<" flag

Berkeley Lab EH&S Environmental Services Sampling Data

February 9, 2004

Waste Water Monitoring – Radiological Activity

Analyte	Location*	Date	Système Int'l.		Conventional		Location*
			Result**	Units	Result**	Analyte	
I-125 <i>continued</i>	Strawberry Sewer	2/12/2004	< 0.59	Bq/L	< 16	pCi/L	Split
		3/11/2004	< 0.67	Bq/L	< 18	pCi/L	Sample
		4/8/2004	< 0.63	Bq/L	< 17	pCi/L	Sample
Phosphorus 32	Field Blank	2/12/2004	< 0.3	Bq/L	< 8	pCi/L	Blank
	Hearst Sewer	1/15/2004	< 0.52	Bq/L	< 14	pCi/L	Sample
		2/12/2004	< 0.56	Bq/L	< 15	pCi/L	Sample
		3/11/2004	< 0.52	Bq/L	< 14	pCi/L	Sample
		4/8/2004	< 0.52	Bq/L	< 14	pCi/L	Sample
	Strawberry Sewer	1/15/2004	< 0.52	Bq/L	< 14	pCi/L	Sample
		2/12/2004	< 0.56	Bq/L	< 15	pCi/L	Sample
		2/12/2004	< 0.56	Bq/L	< 15	pCi/L	Split
		3/11/2004	< 0.52	Bq/L	< 14	pCi/L	Sample
		4/8/2004	< 0.52	Bq/L	< 14	pCi/L	Sample
Sulfur 35	Field Blank	2/12/2004	< 0.3	Bq/L	< 8	pCi/L	Blank
	Hearst Sewer	1/15/2004	< 0.3	Bq/L	< 8	pCi/L	Sample
		2/12/2004	< 0.33	Bq/L	< 9	pCi/L	Sample
		3/11/2004	< 0.33	Bq/L	< 9	pCi/L	Sample
		4/8/2004	< 0.3	Bq/L	< 8	pCi/L	Sample
	Strawberry Sewer	1/15/2004	< 0.3	Bq/L	< 8	pCi/L	Sample
		2/12/2004	< 0.33	Bq/L	< 9	pCi/L	Sample
		2/12/2004	< 0.33	Bq/L	< 9	pCi/L	Split
		3/11/2004	< 0.33	Bq/L	< 9	pCi/L	Sample
		4/8/2004	< 0.3	Bq/L	< 8	pCi/L	Sample
Tritium	Field Blank	2/12/2004	< 5.9	Bq/L	< 160	pCi/L	Blank
	Hearst Sewer	1/15/2004	7	Bq/L	190	pCi/L	Sample
		1/15/2004	< 8	Bq/L	< 220	pCi/L	Sample
		2/12/2004	< 6	Bq/L	< 160	pCi/L	Sample
		3/11/2004	< 6.3	Bq/L	< 170	pCi/L	Sample
		4/8/2004	< 6.1	Bq/L	< 160	pCi/L	Sample
	Strawberry Sewer	1/15/2004	< 6.9	Bq/L	< 190	pCi/L	Sample
		1/15/2004	< 8.1	Bq/L	< 220	pCi/L	Sample
		2/12/2004	< 6.1	Bq/L	< 160	pCi/L	Sample
		2/12/2004	< 5.9	Bq/L	< 160	pCi/L	Split
		3/11/2004	< 6.2	Bq/L	< 170	pCi/L	Sample
		4/8/2004	< 5.9	Bq/L	< 160	pCi/L	Sample

**General Indicator Parameters**

Analyte	Location*	Date	Result**	Units	QA Type
Chemical Oxygen Demand (Filtered)	Hearst Sewer	2/10/2004	44	mg/L	Sample
	Strawberry Sewer	2/10/2004	38	mg/L	Sample
Total suspended solids (TSS)	Hearst Sewer	2/10/2004	220	mg/L	Sample
	Strawberry Sewer	2/10/2004	130	mg/L	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

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Waste Water Monitoring – Metals and/or Minerals

Analyte	Location*	Date	Result**	Units	QA Type
Cadmium	25 FTU	2/26/2004	< 0.01	mg/L	Sample
	77 FTU	2/26/2004	< 0.01	mg/L	Sample
		2/26/2004	< 0.01	mg/L	Split
	Travel Blank	2/26/2004	< 0.01	mg/L	Blank
Chromium	25 FTU	2/26/2004	< 0.01	mg/L	Sample
	77 FTU	2/26/2004	< 0.01	mg/L	Sample
		2/26/2004	< 0.01	mg/L	Split
	Travel Blank	2/26/2004	< 0.01	mg/L	Blank
Copper	25 FTU	2/26/2004	0.27	mg/L	Sample
	77 FTU	2/26/2004	0.04	mg/L	Sample
		2/26/2004	0.038	mg/L	Split
	Travel Blank	2/26/2004	< 0.01	mg/L	Blank
Lead	25 FTU	2/26/2004	< 0.05	mg/L	Sample
	77 FTU	2/26/2004	< 0.05	mg/L	Sample
		2/26/2004	< 0.05	mg/L	Split
	Travel Blank	2/26/2004	< 0.05	mg/L	Blank
Nickel	25 FTU	2/26/2004	0.054	mg/L	Sample
	77 FTU	2/26/2004	< 0.05	mg/L	Sample
		2/26/2004	< 0.05	mg/L	Split
	Travel Blank	2/26/2004	< 0.05	mg/L	Blank
Silver	25 FTU	2/26/2004	< 0.01	mg/L	Sample
	77 FTU	2/26/2004	< 0.01	mg/L	Sample
		2/26/2004	< 0.01	mg/L	Split
	Travel Blank	2/26/2004	< 0.01	mg/L	Blank
Zinc	25 FTU	2/26/2004	< 0.05	mg/L	Sample
	77 FTU	2/26/2004	< 0.05	mg/L	Sample
		2/26/2004	< 0.05	mg/L	Split
	Travel Blank	2/26/2004	< 0.05	mg/L	Blank

**Volatile Organic Compounds**

Analyte	Location*	Date	Result**	Units	QA Type
1,1,1-Trichloroethane	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
1,1,2,2-Tetrachloroethane	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
1,1,2-Trichloroethane	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split

\* See the table at the beginning of this document for descriptions of sampling locations

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Waste Water Monitoring – Volatile Organic Compounds

Analyte	Location*	Date	Result**	Units	QA Type
1,1,2-Trichloroethane	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
1,1-Dichloroethane	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
1,1-Dichloroethene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
1,2-Dichlorobenzene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
1,2-Dichloroethane	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
1,2-Dichloroethene (total)	Field Blank	2/9/2004	< 1	µg/L	Blank
	Hearst Sewer	2/9/2004	< 1	µg/L	Sample
		2/9/2004	< 1	µg/L	Split
	Strawberry Sewer	2/9/2004	< 1	µg/L	Sample
1,2-Dichloropropane	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
1,3-Dichlorobenzene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
1,4-Dichlorobenzene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
1,4-Dichlorobenzene	Strawberry Sewer	2/9/2004	1.9	µg/L	Sample
2-Butanone	Field Blank	2/9/2004	< 20	µg/L	Blank
	Hearst Sewer	2/9/2004	< 20	µg/L	Sample
		2/9/2004	< 20	µg/L	Split
	Strawberry Sewer	2/9/2004	< 20	µg/L	Sample
2-Chloroethylvinylether	Field Blank	2/9/2004	< 10	µg/L	Blank
	Hearst Sewer	2/9/2004	< 10	µg/L	Sample
		2/9/2004	< 10	µg/L	Split
	Strawberry Sewer	2/9/2004	< 10	µg/L	Sample
2-Hexanone	Field Blank	2/9/2004	< 20	µg/L	Blank
	Hearst Sewer	2/9/2004	< 20	µg/L	Sample
		2/9/2004	< 20	µg/L	Split
	Strawberry Sewer	2/9/2004	< 20	µg/L	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

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Berkeley Lab EH&S Environmental Services Sampling Data

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Waste Water Monitoring – Volatile Organic Compounds

Analyte	Location*	Date	Result**	Units	QA Type
4-Methyl-2-pentanone	Field Blank	2/9/2004	< 20	µg/L	Blank
	Hearst Sewer	2/9/2004	< 20	µg/L	Sample
		2/9/2004	< 20	µg/L	Split
	Strawberry Sewer	2/9/2004	< 20	µg/L	Sample
Acetone	Field Blank	2/9/2004	< 20	µg/L	Blank
	Hearst Sewer	2/9/2004	53	µg/L	Sample
		2/9/2004	55	µg/L	Split
	Strawberry Sewer	2/9/2004	3400	µg/L	Sample
Benzene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Bromodichloromethane	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Bromoform	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Bromomethane	Field Blank	2/9/2004	< 1	µg/L	Blank
	Hearst Sewer	2/9/2004	< 1	µg/L	Sample
		2/9/2004	< 1	µg/L	Split
	Strawberry Sewer	2/9/2004	< 1	µg/L	Sample
Carbon disulfide	Field Blank	2/9/2004	< 1	µg/L	Blank
	Hearst Sewer	2/9/2004	< 1	µg/L	Sample
		2/9/2004	< 1	µg/L	Split
	Strawberry Sewer	2/9/2004	< 1	µg/L	Sample
Carbon tetrachloride	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Chlorobenzene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Chloroethane	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Chloroform	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	4.8	µg/L	Sample
		2/9/2004	4.7	µg/L	Split
	Strawberry Sewer	2/9/2004	5.5	µg/L	Sample
Chloromethane	Field Blank	2/9/2004	< 0.5	µg/L	Blank

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Berkeley Lab EH&S Environmental Services Sampling Data

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Waste Water Monitoring – Volatile Organic Compounds

Analyte	Location*	Date	Result**	Units	QA Type
Chloromethane	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
<i>continued</i>		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
cis-1,2-Dichloroethene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
cis-1,3-Dichloropropene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Dibromochloromethane	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Dibromomethane	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Dichlorodifluoromethane	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Ethanol	Field Blank	2/9/2004	< 800	µg/L	Blank
	Hearst Sewer	2/9/2004	< 800	µg/L	Sample
		2/9/2004	< 800	µg/L	Split
	Strawberry Sewer	2/9/2004	< 800	µg/L	Sample
Ethylbenzene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Freon 113	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Methylene chloride	Field Blank	2/9/2004	< 1	µg/L	Blank
	Hearst Sewer	2/9/2004	< 1	µg/L	Sample
		2/9/2004	< 1	µg/L	Split
	Strawberry Sewer	2/9/2004	< 1	µg/L	Sample
Naphthalene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Styrene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample

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Waste Water Monitoring – Volatile Organic Compounds

Analyte	Location*	Date	Result**	Units	QA Type
Styrene	Hearst Sewer	2/9/2004	< 0.5	µg/L	Split
continued	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Tetrachloroethene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Toluene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Total xylene isomers	Field Blank	2/9/2004	< 1	µg/L	Blank
	Hearst Sewer	2/9/2004	< 1	µg/L	Sample
		2/9/2004	< 1	µg/L	Split
	Strawberry Sewer	2/9/2004	< 1	µg/L	Sample
trans-1,2-Dichloroethene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
trans-1,3-Dichloropropene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Trichloroethene	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Trichlorofluoromethane	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
		2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample
Vinyl chloride	Field Blank	2/9/2004	< 0.5	µg/L	Blank
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Sample
	Hearst Sewer	2/9/2004	< 0.5	µg/L	Split
	Strawberry Sewer	2/9/2004	< 0.5	µg/L	Sample

\* See the table at the beginning of this document for descriptions of sampling locations

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# Sediment Monitoring

## Petroleum Hydrocarbons

Analyte	Location*	Date	Result**	Units	QA Type
Diesel Fuel	Chicken Creek-Trib	1/24/2004	170	mg/kg	Sample
Oil and Grease		1/24/2004	3100	mg/kg	Sample

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# Soil Monitoring

## ***Metals and/or Minerals***

Analyte	Location*	Date	Result**	Units	QA Type
Antimony	Building 80	1/26/2004	< 1	mg/kg	Sample
Arsenic		1/26/2004	6.2	mg/kg	Sample
Barium		1/26/2004	190	mg/kg	Sample
Beryllium		1/26/2004	< 1	mg/kg	Sample
Cadmium		1/26/2004	< 1	mg/kg	Sample
Chromium		1/26/2004	44	mg/kg	Sample
Cobalt		1/26/2004	13	mg/kg	Sample
Copper		1/26/2004	37	mg/kg	Sample
Lead		1/26/2004	160	mg/kg	Sample
Mercury		1/26/2004	0.56	mg/kg	Sample
Molybdenum		1/26/2004	< 5	mg/kg	Sample
Nickel		1/26/2004	49	mg/kg	Sample
Selenium		1/26/2004	< 2.5	mg/kg	Sample
Silver		1/26/2004	< 2.5	mg/kg	Sample
Thallium		1/26/2004	< 25	mg/kg	Sample
Vanadium		1/26/2004	43	mg/kg	Sample
Zinc		1/26/2004	87	mg/kg	Sample

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